SAFETY DATA SHEET Date of Issue: 07-12-2023 Date of Revision: 07-12-2023

Heavy Alkyl Benzene (HAB)

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Heavy Alkyl Benzene (HAB) **Product Name** Trade Name Heavy Alkyl Benzene (HAB)

Chemical Name Benzene, mono-C10-13-alkyl derivs., distn. residues

CAS No. 84961-70-6 EC No. 284-660-7

REACH Registration No. 01-2119485843-26-XXXX

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Use in the production of sulfonic acids; in products used as lubricants; in the

treatment of leather; in heat transfer; in building & construction; in emulsion polymerisation; in paints and coatings; in agrochemicals, in cleaning products and

as an additive in plastics and rubber

Uses Advised Against Not known. 1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification SEEF Limited Address of Manufacturer PO Box 50033 Mesaieed

Qatar

Telephone Control room: +974 4014 5511/4014 5499

Shift supervisor: +974 40145581/66899772

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Only representative Company Identification Muntajat BV

Address . Prinses Margrietplantsoen 78-A

The Hague, Netherlands

Postal code 2595 BR + 31(0)70219700 Telephone REACH@muntajatbv.com F-mail

1.4 Emergency telephone number

Within USA and Canada: 1-800-424-9300 For Spill, Leak, Fire, Exposure or

Accident, Call CHEMTREC Day or Night Outside USA and Canada: +1 703-741-5970 and +1-703-527-3887 (collect calls

accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not classified as dangerous for supply/use. Regulation (EC) No. 1272/2008 (CLP)

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name Heavy Alkyl Benzene (HAB)

Hazard Pictogram(s) None. Signal Word(s) None. Hazard Statement(s) None. Precautionary Statement(s) None.

2.3 Other hazards

None known

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
		Registration No.			
Benzene, mono-C10-13-alkyl	84961-70-6	284-660-7	100	Not classified	None
derivs., distn. residues		01-2119485843-26-			
		XXXX			

Contains no non-classified vPvB substances.

Contains no non-classified substances with a Union workplace exposure limit.

For full text of H/P Statements see section 16.

3.2 Mixtures

Not applicable.

Heavy Alkyl Benzene (HAB)

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

Skin Contact Wash skin with water.

Eve Contact Flush eyes with water for at least 15 minutes.

Ingestion Wash out mouth with water. 4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable extinguishing media Water jet spray. 5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable gloves if prolonged skin contact is likely.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a

container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General hygiene measures for the handling of chemicals are applicable. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke at the

work place.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature Ambient.

Storage life Stable under normal conditions. Incompatible materials Strong oxidising agents.

7.3 Specific end use(s)

Use in the production of sulfonic acids; in products used as lubricants; in the treatment of leather; in heat transfer; in building & construction; in emulsion polymerisation; in paints and coatings; in agrochemicals, in cleaning products and as an additive in plastics and rubber

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned.

Benzene, mono-C10-13-alkyl derivs., distn. residue	s		
DNEL / DMEL	Oral	Inhalation	Dermal
Industry - Long Term - Local effects			
Industry - Long Term - Systemic effects		2.2 mg/m ³	3.15 mg/m ³
Industry - Short term - Local effects			
Industry - Short term - Systemic effects			
Consumer - Long Term - Local effects			
Consumer - Long Term - Systemic effects	225 μg/m³ bw/day	391 µg/m³ bw/day	1.13 mg/m ³
Consumer - Short term - Local effects			
Consumer - Short term - Systemic effects			

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Benzene, mono-C10-13-alkyl derivs., distn. residues	
Environment	PNEC
	Fresh water: 0.001 mg/l, Sea water: 0 mg/l, Intermittent: 0.001 mg/l, Sedimentation (Fresh water): 16.5 mg/kg, Sedimentation (Sea water): 1.65 mg/kg
Terrestrial Compartment	3.7 mg/kg
Atmospheric Compartment	Sewage treatment: 2.0 mg/l

8.2 Exposure controls

8.2.1. Appropriate engineering controls 8.2.2. Personal protection equipment

Use with ventilation, local exhaust ventilation or breathing protection.

Eye Protection

Not normally required. Wear protective eye glasses for protection against liquid

splashes.



Not normally required. Wear suitable gloves if prolonged skin contact is likely. Skin protection

Recommended: Fluorinated rubber, Nitrile rubber, PVC.

Thickness of coating: 0.35-0.5 mm

Breakthrough time: ≥ 60 minutes (PVC), ≥ 480 minutes (Fluorinated rubber, Nitrile

rubber)

Respiratory protection

Normally no personal respiratory protection is necessary. Wear suitable respiratory

protective equipment if exposure to high levels of material are likely.



Thermal hazards Not applicable.

8.2.3. Environmental Exposure Controls Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Liquid. Yellowish. Colour Characteristic. Odour Melting point/freezing point < -39°C Boiling point or initial boiling point and 300-450°C boiling range Flammability Not applicable. Lower and upper explosion limit Not known.

≥ 170°C Flash Point 258-350°C Auto-ignition temperature **Decomposition Temperature** Not known. Not known.

22.6 mm²/s @ 40°C Kinematic Viscosity

Solubility (Water): Insoluble in cold water. Solubility

Solubility (Other): Not known. Log Pow 6.6-9.9 @ 25°C

Partition coefficient n-octanol/water (log value)

< 5 Pa @ 20°C & 50°C Vapour pressure

Density and/or relative density Relative density: 0.86-0.87 @ 15°C

Relative vapour density Not known. Particle characteristics Not known 9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

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No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion Low oral toxicity.

LD50 (rat) > 2000 mg/kg
Acute toxicity - Skin Contact
Low acute toxicity.

Acute toxicity - Inhalation LD50 (rat) > 3600 mg/kg
Acute toxicity - Inhalation Low acute toxicity.
Skin corrosion/irritation Non-irritant.
Serious eye damage/irritation Non-irritant.

Germ cell mutagenicity

There is no evidence of mutagenic potential.

Carcinogenicity No evidence of carcinogenicity.
Reproductive toxicity No evidence of reproductive effects.
Lactation Not classified.

STOT - single exposure
STOT - repeated exposure
Aspiration hazard
Not classified.
None anticipated.
Not classified.

Kinematic Viscosity > 20.5 mm²/s @ 40°C

11.2 Information on other hazards

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates Low toxicity to invertebrates.

EC50 (Daphnia magna) (48 hour) > 1.4 mg/l

Toxicity - Fish Low toxicity to fish.

LC50 (96 hour) > 100% WAF Low toxicity to algae.

Toxicity - Algae Low toxicity to algae. EC50 (72 hour) > 2.08 mg/l

Toxicity - Sediment Compartment Not classified.

Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and degradability

Slowly biodegradable.

12.3 Bioaccumulative potential

The substance has high potential for bioaccumulation.

Log Pow 6.6-9.9 @ 25°C

12.4 Mobility in soil

Insoluble in cold water. The product is predicted to have low mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Endocrine disrupting properties

None known.

12.7 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recover or recycle if possible. Dispose of wastes in an approved waste disposal

facility.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

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Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

14.7 Maritime transport in bulk according to IMO instruments

Not known

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very

Not listed

High Concern for Authorisation REACH: ANNEX XIV list of substances

subject to authorisation

Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and

Benzene, mono-C10-13-alkyl derivs., distn. residues (84961-70-6)

use of certain dangerous substances,

mixtures and articles Community Rolling Action Plan (CoRAP)

Benzene, mono-C10-13-alkyl derivs., distn. residues (84961-70-6)

Regulation (EU) N° 2019/1021 of the European Parliament and of the Council

Not listed

on persistent organic pollutants Regulation (EC) N° 1005/2009 on

Not listed

substances that deplete the ozone layer Regulation (EU) N° 649/2012 of the

Not listed

European Parliament and of the Council concerning the export and import of

hazardous chemicals National regulations

Other Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

LEGEND

Acronyms ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures **DNEL**: Derived No Effect Level EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

LTEL: Long term exposure limit

PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for Regulation (EC) No. 1272/2008 (CLP)

data used to compile the SDS

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Exposure Scenario 1: Formulation - Formulation of substance - liquid

1.1 Processes and activities covered by the exposure scenario		
Sectors of use (SU)	SU10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)	
Chemical product category (PC)	PC1: Adhesives, sealants PC9a: Coatings and paints, thinners, paint removes PC13: Fuels PC15: Non-metal-surface treatment product PC16: Heat transfer fluids PC18: Ink and toners PC21: Laboratory chemicals PC23: Leather treatment products PC24: Lubricants, greases, release products PC25: Metal working fluids PC26: Paper and board treatment products PC30: Photo-chemicals PC31: Polishes and wax blends PC32: Polymer preparations and compounds PC34: Textile dyes, and impregnating products PC35: Washing and cleaning products PC38: Welding and soldering products, flux products	
Process category (PROC)	PC40: Extraction agents PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional	
	controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/ discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing PROC15: Use as laboratory reagent	
Article Categories (AC)	Not applicable	
Environmental release categories (ERC)	ERC2: Formulation of preparations	
1.2 Operational conditions of use		
Control parameters	Implement good standards of occupational hygiene. Before use react the label/SDS	
Duration and frequency of use	User to specify	
Maximum amount per time or activity	User to specify	
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects.	
Engineering control measures	Keep area well ventilated. Exposure limit values: Not known. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthling procedures. However, bonding and earthling may not eliminate the hazard from static accumulation	
Other Protective Equipment	Good standard of personal hygiene	
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)	
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams	
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness	

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Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers
	are in the proximity to work-station location

Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical prope	rties
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation / mixture or article	Formulators information
Service life of substances in articles	Formulators information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not ingest, risk of aspiration in the trachea, may be fatal. Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation.
1.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
1.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training with regular updates in the handling of chemicals

Exposure Scenario 2: Formulation - Formulation of substance - solid

2.1 Processes and activities covered by the exposure scenario	
Sectors of use (SU)	SU10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
Chemical product category (PC)	PC1: Adhesives, sealants PC31: Polishes and wax blends PC32: Polymer preparations and compounds PC0: Other: Building and construction preparations

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D (DD00)	
Process category (PROC)	PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated
	facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing PROC14: Tabletting, compression, extrusion, pelletisation, granulation
	PROC15: Use as laboratory reagent
Article Categories (AC) Environmental release categories (ERC)	Not applicable ERC3: Formulation in materials
2.2 Operational conditions of use	
Control parameters	Implement good standards of occupational hygiene. Before use read the label/SDS
Duration and frequency of use	User to specify
Maximum amount per time or activity	User to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects.
Engineering control measures	Keep area well ventilated. Exposure limit values: Not known. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthling procedures. However, bonding and earthling may not eliminate the hazard from static accumulation
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection Eye protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams Wear safety goggles or face shield. Ensure eyewash and showers
Lye protection	are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical proper	ties
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation / mixture or article	Formulators information
Service life of substances in articles	Formulators information
Risk Management Measures	Least Fallenant Mantifestion
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures	-
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not ingest, risk of aspiration in the trachea, may be fatal. Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation.

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2.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
2.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 3: Industrial - Intermediate use, production of sulphonic acids

Sectors of use (SU)	SU8: Manufacture of bulk, large scale chemicals (including petroleum
Jectors of use (30)	products)
	SU9: Manufacture of fine chemicals
Chemical product category (PC)	PC19: Intermediate
Chemical product category (PC)	PC35: Washing and cleaning products (including solvent based
	products)
Process category (PROC)	PROC 1: Use in closed process, no likelihood of exposure
	PROC2: Use in closed, continuous process with occasional
	controlled exposure
	PROC3: Use in closed batch process (synthesis or formulation)
	PROC4: Use in batch and other process (synthesis) where
	opportunity for exposure arises
	PROC8a: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at non-dedicated
	facilities
	PROC8b: Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers at dedicated facilities
	PROC15: Use as laboratory reagent
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC6a: Industrial use resulting in manufacture of another substance
Environmental release categories (ENC)	(use of intermediates)
3.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures. Take
	precautionary measures against static discharge.
Duration and frequency of use	User to specify
Maximum amount per time or activity	User to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process
	equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases,
	fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthing procedures. However,
	bonding and earthing may not eliminate the hazard from static
	accumulation Exposure limit values: Not known.
Other Protective Equipment	Good standard of personal hygiene
• •	Required where ventilation is insufficient, or exposure is prolonged
Respiratory protection	
Respiratory protection	
Respiratory protection	Do not ingest, risk of aspiration in the trachea, may be fatal.
, ,,	Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Respiratory protection Hand protection	Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65) Rubber or PVC gloves. Prolonged use may cause skin dryness or
, ,,	Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)

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Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed, then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical proper	ties
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation / mixture or article	Formulators information
Service life of substances in articles	Formulators information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use.
Waste management measures	1
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not ingest, risk of aspiration in the trachea, may be fatal. Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation.
3.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use.
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
3.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 4: Industrial - Industrial end-use as closed system oil

4.1 Processes and activities covered by the exposure scenario		
Sectors of use (SU)	SU0: Other: Industrial uses	
Chemical product category (PC)	PC15: Non-metal-surface treatment products PC16: Heat transfer fluids	
Process category (PROC)	PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC20: Use of functional fluids in small devices	
Article Categories (AC)	Not applicable	
Environmental release categories (ERC)	ERC7: Industrial use of substances in closed systems	
4.2 Operational conditions of use		
Control parameters	Good hygiene practices and housekeeping measures.	
Duration and frequency of use	User to specify	
Maximum amount per time or activity	User to specify	

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Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and
	objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process
	equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases,
	fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable
	levels. Use proper bonding and/or earthing procedures. However,
	bonding and earthing may not eliminate the hazard from static
	accumulation Exposure limit values: Not known.
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged
	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
•	cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers
	are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not
	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and
	management/supervision are in place
Information on basic physical and chemical proper	
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulators information
mixture or article	
Service life of substances in articles	Formulators information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of	When handling waste wear protective clothing. Do not ingest, risk of
surplus or waste	aspiration in the trachea, may be fatal. Do not allow to enter drains,
	sewers or watercourses. Disposal should be in accordance with local,
	state or national legislation.
4.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use.
	Exposure can occur during filling, emptying and system. Use of PPE
	will to minimise handling and contact maintenance
Consumers	_
Consumers Method	Not for consumer use
Method	Not for consumer use Not applicable
Method Exposure estimation	Not for consumer use Not applicable Not known
Method Exposure estimation Secondary Poisoning	Not for consumer use Not applicable Not known Not expected
Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment	Not for consumer use Not applicable Not known
Method Exposure estimation Secondary Poisoning	Not for consumer use Not applicable Not known Not expected Not applicable
Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 4.4 Other information Control parameters	Not for consumer use Not applicable Not known Not expected Not applicable Refer to the eSDS
Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 4.4 Other information	Not for consumer use Not applicable Not known Not expected Not applicable Refer to the eSDS Management/supervision to check that the RMMs in place are being
Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 4.4 Other information Control parameters	Not for consumer use Not applicable Not known Not expected Not applicable Refer to the eSDS

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Exposure Scenario 5: Industrial - Industrial end-use as functional fluids (e.g. hydraulic fluids)

5.1 Processes and activities covered by the exposure scenario	
Sectors of use (SU)	SU0: Other: Industrial uses
Chemical product category (PC)	PC 16: Heat transfer fluids
Process category (PROC)	PROC1: Use in closed process, no likelihood of exposure
Frocess category (FROC)	PROC2: Use in closed, continuous process with occasional
	controlled exposure
	PROC3: Use in closed batch process (synthesis or formulation)
	PROC4: Use in batch and other process (synthesis) where
	opportunity for exposure arises
	PROC8a: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at non-dedicated
	facilities PROC8b: Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers at dedicated
	facilities
	PROC9: Transfer of substance or preparation into small containers
	(dedicated filling line, including weighing
	PROC20: Use of functional fluids in small devices
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC7: Industrial use of substances in closed systems
5.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	User to specify
Maximum amount per time or activity	User to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and
	objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process
	equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable
	levels. Use proper bonding and/or earthing procedures. However,
	bonding and earthing may not eliminate the hazard from static
	accumulation Exposure limit values: Not known.
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged
•	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
	cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers
	are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not
	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical pro	
Product specification	perties
Product specification Physical form of the product	perties Liquid
Product specification Physical form of the product Concentration of substance in preparation /	perties
Product specification Physical form of the product Concentration of substance in preparation / mixture or article	perties Liquid Formulators information
Product specification Physical form of the product Concentration of substance in preparation / mixture or article Service life of substances in articles	perties Liquid
Product specification Physical form of the product Concentration of substance in preparation / mixture or article Service life of substances in articles Risk Management Measures	Perties Liquid Formulators information Formulators information
Product specification Physical form of the product Concentration of substance in preparation / mixture or article Service life of substances in articles Risk Management Measures Occupational exposure controls	perties Liquid Formulators information
Product specification Physical form of the product Concentration of substance in preparation / mixture or article Service life of substances in articles Risk Management Measures Occupational exposure controls	Liquid Formulators information Formulators information Local Exhaust Ventilation
Product specification Physical form of the product Concentration of substance in preparation / mixture or article Service life of substances in articles Risk Management Measures Occupational exposure controls	Liquid Formulators information Formulators information Local Exhaust Ventilation Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards
Service life of substances in articles Risk Management Measures	Liquid Formulators information Formulators information Local Exhaust Ventilation Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not
Product specification Physical form of the product Concentration of substance in preparation / mixture or article Service life of substances in articles Risk Management Measures Occupational exposure controls	Liquid Formulators information Formulators information Local Exhaust Ventilation Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards

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Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not ingest, risk of aspiration in the trachea, may be fatal. Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation.
5.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
5.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 6: Industrial - Industrial end-use of lubricants and greases - closed systems

Sectors of use (SU)	SU0: Other: Industrial uses
Chemical product category (PC)	PC24: Lubricants, greases, release products
Process category (PROC)	PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers
	(dedicated filling line, including weighing
A (; 1, 0, 4, -; , (4,0))	PROC20: Use of functional fluids in small devices
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
Control parameters Duration and frequency of use	Good hygiene practices and housekeeping measures. User to specify
	User to specify
Maximum amount per time or activity	User to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation Exposure limit values: Not known.
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location

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Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
or article
Liquid
Formulators information
Formulators information
Local Exhaust Ventilation
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Not for consumer use
When handling waste wear protective clothing. Do not ingest, risk of aspiration in the trachea, may be fatal. Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation.
Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Not for consumer use
Not applicable
Not known
Not expected
Not applicable
Refer to the eSDS

Exposure Scenario 7: Industrial - Industrial end-use of lubricants and greases - open systems

Sectors of use (SU)	SU0: Other: Industrial uses
Chemical product category (PC)	PC24: Lubricants, greases, release products
	PC25: Metal working fluids
Process category (PROC)	PROC1: Use in closed process, no likelihood of exposure
	PROC2: Use in closed, continuous process with occasional controlled
	exposure
	PROC7: Spraying onto equipment or article
	PROC8a: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at non-dedicated
	facilities
	PROC8b: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at dedicated facilities
	PROC9: Transfer of substance or preparation in small containers (line
	filling system, including weighing
	PROC10: Automated roller application or brushing of coatings
	PROC13: Treatment of articles by dipping and pouring
Article Categories (AC)	Not applicable

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Heavy Alkyl Benzene (HAB)

Environmental release categories (ERC)	ERC4: Industrial use of processing aids in processes and products,
	not becoming part of articles
7.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	User to specify
Maximum amount per time or activity	User to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and
	objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process
	equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases,
	fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable
	levels. Use proper bonding and/or earthing procedures. However,
	bonding and earthing may not eliminate the hazard from static
	accumulation Exposure limit values: Not known.
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged
The process of the second of t	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
<u> </u>	cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers
	are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not
	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and
	management/supervision are in place
Information on basic physical and chemical propert	iles
Product specification Physical form of the product	Liquid
Concentration of substance in preparation /	Liquid Formulators information
mixture or article	1 officiators information
Service life of substances in articles	Not known
Risk Management Measures	1 *********
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
•	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
_	required for the environment.
Consumer use	Not for consumer use
Waste management measures	Mile and be sufficient to the second section of the section o
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not ingest, risk of aspiration in the trachea, may be fatal. Do not allow to enter drains,
surplus or waste	sewers or watercourses. Disposal should be in accordance with local,
	state or national legislation.
	1
7.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use.
	Exposure can occur during filling, emptying and system. Use of PPE
	exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	will to minimise handling and contact maintenance Not for consumer use
Method	will to minimise handling and contact maintenance Not for consumer use Not applicable
Method Exposure estimation	will to minimise handling and contact maintenance Not for consumer use Not applicable Not known
Method Exposure estimation Secondary Poisoning	will to minimise handling and contact maintenance Not for consumer use Not applicable Not known Not expected
Method Exposure estimation Secondary Poisoning	will to minimise handling and contact maintenance Not for consumer use Not applicable Not known
Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment	will to minimise handling and contact maintenance Not for consumer use Not applicable Not known Not expected
Method Exposure estimation	will to minimise handling and contact maintenance Not for consumer use Not applicable Not known Not expected
Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 7.4 Other information	will to minimise handling and contact maintenance Not for consumer use Not applicable Not known Not expected Not applicable
Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 7.4 Other information Control parameters	will to minimise handling and contact maintenance Not for consumer use Not applicable Not known Not expected Not applicable Refer to the eSDS

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Exposure Scenario 8: Industrial - Industrial end-use of HAB or HAB containing formulations for the production of polymers or rubber products

SU0: Other: Industrial uses PC32: Polymer preparations and compounds PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controller exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/ discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging/ from/to vessels/large containers at dedicated facilities PROC14: Tabletting, compression, extrusion, pelletisation, granulation Not applicable ERC5: Industrial use resulting in inclusion into or onto a matrix.
PROC2: Use in closed, continuous process with occasional controlle exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging/from/to vessels/large containers at dedicated facilities PROC14: Tabletting, compression, extrusion, pelletisation, granulation Not applicable
PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging/from/to vessels/large containers at dedicated facilities PROC14: Tabletting, compression, extrusion, pelletisation, granulation Not applicable
preparations and articles (multistage and/or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/ discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging from/to vessels/large containers at dedicated facilities PROC14: Tabletting, compression, extrusion, pelletisation, granulation Not applicable
facilities PROC8b: Transfer of substance or preparation (charging/discharging from/to vessels/large containers at dedicated facilities PROC14: Tabletting, compression, extrusion, pelletisation, granulation Not applicable
PROC14: Tabletting, compression, extrusion, pelletisation, granulation Not applicable
Not applicable
Good hygiene practices and housekeeping measures.
User to specify
User to specify
Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable
levels. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation Exposure limit values: Not known.
Good standard of personal hygiene
Required where ventilation is insufficient or exposure is prolonged Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
rties
Liquid
Formulators information
Formulators information
Local Exhaust Ventilation
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Not for consumer use

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Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not ingest, risk of aspiration in the trachea, may be fatal. Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation.
8.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
8.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 9: Industrial - Industrial end-use of fuels

Sectors of use (SU)	SU0: Other: Industrial uses
Chemical product category (PC)	PC13: Fuels
Process category (PROC)	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC16: Use of fuels
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC7: Industrial use of substances in closed systems
9.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	User to specify
Maximum amount per time or activity	User to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation Exposure limit values: Not known. For lamp oils and grill lighters, follow the provisions of REACH –Annex XVII, including: -Marketing in black opaque containers not exceeding 1litre. To Label with specific safe use instruction
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location

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Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical proper	ties
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulators information
mixture or article	
Service life of substances in articles	Formulators information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures	·
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not ingest, risk of aspiration in the trachea, may be fatal. Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation.
9.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
9.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals. For lamp oils and grill lighters, follow the provisions of REACH – Annex XVII, including: -Marketing in black opaque containers not exceeding 1litre. To Label with specific safe use instruction

Exposure Scenario 10: Industrial - Industrial end-use of metal and non-metal surface treatment products (polishes and wax blends)

Sectors of use (SU)	SU0: Other: Industrial uses
Chemical product category (PC)	PC15: Non-metal-surface treatment products PC31: Polishes and wax blends
Process category (PROC)	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC7: Spraying onto equipment or article PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Automated filling of lubricant container, PROC10: Automated roller application or brushing of coatings PROC13: Treatment of articles by dipping and pouring
Article Categories (AC)	Not applicable

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Environmental release categories (ERC)	ERC4: Industrial use of processing aids in processes and products,
10.2 Operational conditions of use	not becoming part of articles
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	User to specify
Maximum amount per time or activity	User to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation Exposure limit values: Not known.
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical propert	ies
Product specification	T 1 touts
Physical form of the product Concentration of substance in preparation /	Liquid Formulators information
mixture or article	
Service life of substances in articles	Formulators information
Risk Management Measures	1 officiation information
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not ingest, risk of aspiration in the trachea, may be fatal. Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation.
10.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment 10.4 Other information	Not applicable
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

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Heavy Alkyl Benzene (HAB)

Exposure Scenario 11: Industrial - Industrial end-use of ink and toners

Sectors of use (SU)	SU0: Other: Industrial uses
Chemical product category (PC)	PC18: Ink and toners
Process category (PROC)	PROC5: Mixing or blending in batch processes for formulation of
	preparations and articles (multistage and/or significant contact) PROC7: Spraying onto equipment or article
	PROC8a: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at non-dedicated
	facilities
	PROC8b: Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers at dedicated
	facilities
	PROC10: Automated roller application or brushing of coatings
Auticle Cetemories (AC)	PROC13: Treatment of articles by dipping and pouring
Article Categories (AC) Environmental release categories (ERC)	Not applicable ERC5: Industrial use resulting in inclusion into or onto a matrix.
11.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	User to specify
Maximum amount per time or activity	User to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process
	equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases,
	fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable
	levels. Use proper bonding and/or earthing procedures. However,
	bonding and earthing may not eliminate the hazard from static
	accumulation Exposure limit values: Not known.
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged
	Do not ingest, risk of aspiration in the trachea, may be fatal.
Hand protection	(Aspiration toxicity R65) Rubber or PVC gloves. Prolonged use may cause skin dryness or
•	cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not
	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and
Information on basic physical and chemical properti	management/supervision are in place
Product specification	165
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulators information
mixture or article	
Service life of substances in articles	Formulators information
Risk Management Measures	Local Exhaust Vantilation
Occupational exposure controls Environmental Exposure Controls	Local Exhaust Ventilation Avoid dispersal of spilled material and runoff and contact with soil,
Environmental Exposure Controls	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of	When handling waste wear protective clothing. Do not ingest, risk of
surplus or waste	I consider in the tracker mean he fatel De not allow to enter dualing
surplus or waste	aspiration in the trachea, may be fatal. Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with

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11.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
11.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 12: Industrial - Industrial end-use in paints and coatings

Sectors of use (SU)	SU0: Other: Industrial uses
Chemical product category (PC)	PC9a: Coatings and paints, thinners, paint removers
Process category (PROC)	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC7: Spraying onto equipment or article PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC10: Automated roller application or brushing of coatings (PROC13: Treatment of articles by dipping and pouring
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC5: Industrial use resulting in inclusion into or onto a matrix.
12.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	User to specify
Maximum amount per time or activity	User to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work proces equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation Exposure limit values: Not known.
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place

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Information on basic physical and chemical properties	
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulators information
mixture or article	
Service life of substances in articles	Formulators information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
·	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of	When handling waste wear protective clothing. Do not ingest, risk of
surplus or waste	aspiration in the trachea, may be fatal. Do not allow to enter drains,
	sewers or watercourses. Disposal should be in accordance with local,
	state or national legislation.
12.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use.
	Exposure can occur during filling, emptying and system. Use of PPE
	will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
12.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being
-	used correctly and OCs followed. Ensure staff and workers receive
	adequate training wit regular updates in the handling of chemicals

Exposure Scenario 13: Industrial - Industrial end-use as extraction agent

Sectors of use (SU)	SU0: Other: Industrial uses
Chemical product category (PC)	PC40: Extraction agents
Process category (PROC)	PROC3: Use in closed batch process (synthesis or formulation) PROC8a: Transfer of substance or preparation (charging/ discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
13.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	User to specify
Maximum amount per time or activity	User to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.

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Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases,
	fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable
	levels. Use proper bonding and/or earthing procedures. However,
	bonding and earthing may not eliminate the hazard from static
	accumulation Exposure limit values: Not known.
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged
	Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers
, .	are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not
	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and
	management/supervision are in place
Information on basic physical and chemical proper Product specification	rties
Physical form of the product	Liquid
Concentration of substance in preparation /	Liquid Formulators information
mixture or article	Formulators information
Service life of substances in articles	Formulators information
Risk Management Measures	1 Officiations information
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
Environmental Exposure Controls	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of	When handling waste wear protective clothing. Do not ingest, risk of
surplus or waste	aspiration in the trachea, may be fatal. Do not allow to enter drains,
	sewers or watercourses. Disposal should be in accordance with
	local, state or national legislation.
13.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use.
	Exposure can occur during filling, emptying and system. Use of PPE
	will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
mandet expedite to name the the environment	
13.4 Other information	
13.4 Other information	Refer to the eSDS
13.4 Other information Control parameters	Refer to the eSDS Management/supervision to check that the RMMs in place are being
13.4 Other information	Refer to the eSDS Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive

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Exposure Scenario 14: Industrial - Industrial end-use of washing and cleaning products (solvent based)

posure scenario
SU0: Other: Industrial uses
PC35: Washing and cleaning products
PROC2: Use in closed, continuous process with occasional
controlled exposure
PROC3: Use in closed batch process (synthesis or formulation)
PROC5: Mixing or blending in batch processes for formulation of
preparations and articles (multistage and/or significant contact)
PROC7: Spraying onto equipment or article
PROC8a: Transfer of substance or preparation (charging/
discharging) from/to vessels/large containers at non-dedicated facilities
PROC8b: Transfer of substance or preparation
(charging/discharging) from/to vessels/large containers at dedicated
facilities
PROC9: Transfer of substance or preparation into small containers
(dedicated filling line, including weighing
PROC13: Treatment of articles by dipping and pouring
Not applicable
ERC4: Industrial use of processing aids in processes and products,
not becoming part of articles
Good hygiene practices and housekeeping measures.
User to specify
User to specify
Avoid splashes and spills. Avoid contact with contaminated tools and
objects. Before use read the labels and Safety Data Sheet.
Keep area well ventilated. Emissions from ventilation or work proces
equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases,
fume scrubbers, filters or engineering modifications to the process
equipment will be necessary to reduce emissions to acceptable
levels. Use proper bonding and/or earthing procedures. However,
bonding and earthing may not eliminate the hazard from static
accumulation Exposure limit values: Not known.
Good standard of personal hygiene
Required where ventilation is insufficient or exposure is prolonged
Do not ingest, risk of aspiration in the trachea, may be fatal.
(Aspiration toxicity R65)
Rubber or PVC gloves. Prolonged use may cause skin dryness or
cracking. Can use skin creams
Wear safety goggles or face shield. Ensure eye wash and showers
are in the proximity to work-station location
Avoid repeated and/or prolonged skin contact with product. Do not
ingest, risk of aspiration in the trachea, may be fatal. If swallowed
then seek immediate medical assistance. Avoid contact with the
substance or contaminated objects, Ensure regular cleaning of
equipment and work area, good personal hygiene, staff training and management/supervision are in place
perties
Formulators information
Formulators information
Not known
THE MICHIE
Local Exhaust Ventilation
Local Exhaust Ventilation Avoid dispersal of spilled material and runoff and contact with soil,
Local Exhaust Ventilation Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the
Local Exhaust Ventilation Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards
Local Exhaust Ventilation Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not
Local Exhaust Ventilation Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards

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Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not ingest, risk of aspiration in the trachea, may be fatal. Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation.
14.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
14.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 15: Professional - Professional end-use as closed system oil

Sectors of use (SU)	SU0: Other, professional uses
Chemical product category (PC)	PC16: Heat transfer fluids
Process category (PROC)	PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing PROC20: Heat and pressure transfer fluids in dispersive, professional use but closed systems
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC9b: Wide dispersive outdoor use of substances in closed systems
15.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65.
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or

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Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical propert	ties
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation / mixture or article	Formulator/user information
Service life of substances in articles	Formulator/user information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses Disposal should be in accordance with local, state or national legislation.
15.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
15.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 16: Professional - Professional end-use of lubricants and greases - closed systems

Sectors of use (SU)	SU0: Other, professional uses
Chemical product category (PC)	PC24: Lubricants, greases, release products
Process category (PROC)	PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure: PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC20: Heat and pressure transfer fluids in dispersive, professional use but closed systems
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC8a: Wide dispersive indoor use of processing aids in open systems
16.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify

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Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and
•	objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process
	equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases,
	fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable
	levels. Use proper bonding and/or earthing procedures. However,
	bonding and earthing may not eliminate the hazard from static
	accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged.
. ,.	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
, , , , , , , , , , , , , , , , , , ,	cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers
• • • • • • • • • • • • • • • • • • • •	are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not
	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and
	management/supervision are in place
Physical form of the product	
Information on basic physical and chemical propert	ies
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulator/user information
mixture or article	
Service life of substances in articles	Formulator/user information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Not for consumer use
Waste management measures Description and information on safe handling of	Short term during formulation. Long term exposure during use.
surplus or waste	Exposure can occur during filling, emptying and system. Use of PPE
surplus or waste	will to minimise handling and contact maintenance
	will to millimise harding and contact maintenance
16.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Use
	of PPE will to minimise handling and contact.
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
16.4 Other information	
10.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being
	used correctly and OCs followed. Ensure staff and workers receive
	adequate training wit regular updates in the handling of chemicals

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Heavy Alkyl Benzene (HAB)

Exposure Scenario 17: Professional - Professional end-use of lubricants and greases - open systems

Sectors of use (SU)	SU0: Other professional uses
Chemical product category (PC)	PC 24: Lubricants, greases, release products
Process category (PROC)	PROC1: Use in closed process, no likelihood of exposure
	PROC2: Use in closed, continuous process with occasional
	controlled exposure
	PROC8a: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at non-dedicated
	facilities
	PROC8b: Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers at dedicated
	facilities
	PROC10: Roller application or brushing of coatings
	PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring
Article Categories (AC)	7 11 0 1 0
Article Categories (AC) Environmental release categories (ERC)	Not applicable ERC8d: Wide dispersive outdoor use of processing aids in open
Environmental release categories (ERC)	systems
	Systems
17.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process
	equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases,
	fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable
	levels. Use proper bonding and/or earthing procedures. However,
	bonding and earthling may not eliminate the hazard from static
	accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged.
	Do not ingest, risk of aspiration in the trachea, may be fatal.
Hand works sking	(Aspiration toxicity R65) Rubber or PVC gloves. Prolonged use may cause skin dryness or
Hand protection	
Eye protection	cracking. Can use skin creams Wear safety goggles or face shield. Ensure eye wash and showers
Eye protection	are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not
Other information	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and
	management/supervision are in place
Information on basic physical and chemical prope	
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulator/user information
mixture or article	Farmer vlatery/ vacar information
Service life of substances in articles Physical form of the product	Formulator/user information
Physical form of the product	Not known Formulator/use information
Concentration of substance in preparation / mixture or article	ronnulator/use information
Service life of substances in articles	Not known
Risk Management Measures	Not known
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
Environmental Exposure Controls	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not required for the environment.

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Heavy Alkyl Benzene (HAB)

Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses Disposal should be in accordance with local, state or national legislation.
17.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
17.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 18: Professional - Professional end-use of rubber and mastics

Sectors of use (SU)	SU11: Manufacture of rubber products
Chemical product category (PC)	PC32: Polymer preparations and compounds
Process category (PROC)	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC21: Low energy manipulation and handling of substances bound in/on materials or articles PROC23: Open processing and transfer operations at substantially elevated temperature
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC8f:Wide dispersive outdoor use resulting in inclusion into or onto a matrix
18.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthling procedures. However, bonding and earthling may not eliminate the hazard from static accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged. Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place

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Heavy Alkyl Benzene (HAB)

Information on basic physical and chemical properties		
Product specification		
Physical form of the product	Liquid	
Concentration of substance in preparation /	Formulator/user information	
mixture or article		
Service life of substances in articles	Formulator/user information	
Risk Management Measures		
Occupational exposure controls	Local Exhaust Ventilation	
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,	
	waterways, drains and sewers. The substance does not meet the	
	criteria to be classified dangerous for the environmental hazards	
	therefore exposure assessment and risk characterization is not	
	required for the environment.	
Consumer use	Not for consumer use	
Waste management measures		
Description and information on safe handling of	When handling waste wear protective clothing. Do not allow to enter	
surplus or waste	drains, sewers or watercourses Disposal should be in accordance	
	with local, state or national legislation.	
18.3 Exposure assessment		
Human exposure prediction		
Workers	Short term during formulation. Long term exposure during use.	
	Exposure can occur during filling, emptying and system. Use of PPE	
	will to minimise handling and contact maintenance.	
Consumers	Not for consumer use	
Method	Not applicable	
Exposure estimation	Not known	
Secondary Poisoning	Not expected	
Indirect exposure to humans via the environment	Not applicable	
18.4 Other information		
Control parameters	Refer to the eSDS	
Method to check compliance		
Method to check compliance	Management/supervision to check that the RMMs in place are being	
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive	

Exposure Scenario 19: Professional - End use in emulsion polymerisation

	xposure scenario
Sectors of use (SU)	SU12: Manufacture of plastics products, including compounding and conversion
Chemical product category (PC)	PC1: Adhesives, sealants
Process category (PROC)	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC3: Formulation in materials ERC6c: Industrial use of monomers for manufacture of thermoplastics
19.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work proces equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, furne scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthling procedures. However, bonding and earthling may not eliminate the hazard from static accumulation. Exposure limit values: Not known

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Heavy Alkyl Benzene (HAB)

Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged.
, p	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
	cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers
7 · P	are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not
	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and
	management/supervision are in place
Information on basic physical and chemical proper	rties
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulator/user information
mixture or article	
Service life of substances in articles	Formulator/user information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Not for consumer use
Waste management measures	T
Description and information on safe handling of	When handling waste wear protective clothing. Do not allow to enter
surplus or waste	drains, sewers or watercourses Disposal should be in accordance
	with local, state or national legislation.
19.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use.
	Exposure can occur during filling, emptying and system. Use of PPE
	will to minimise handling and contact maintenance.
Consumers	Not for consumer use
Mathad	Net applicable
Method Exposure estimation	Not applicable Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
	постаррисаріе
19.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being
	used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 20: Professional - Professional end-use in paintings and coatings

20.1 Processes and activities covered by the exposure scenario	
Sectors of use (SU)	SU0: Other professional uses
Chemical product category (PC)	PC9a: Coatings and paints, thinners, paint removers
Process category (PROC)	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC10: Roller application or brushing PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring
Article Categories (AC)	Not applicable

Heavy Alkyl Benzene (HAB)

Environmental release categories (ERC)	ERC8f :Wide dispersive outdoor use resulting in inclusion into or onto a matrix
20.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthling procedures. However, bonding and earthling may not eliminate the hazard from static accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged. Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical properti	
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulator/user information
mixture or article	
Service life of substances in articles	Formulator/user information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses Disposal should be in accordance with local, state or national legislation.
20.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance.
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
20.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

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Exposure Scenario 21: Professional - Professional end-use as washing and cleaning products (solvent based)

Sectors of use (SU)	SU0: Other professional uses
Chemical product category (PC)	PC35:Washing and cleaning products
Process category (PROC)	PROC4: Use in batch and other process (synthesis) where
	opportunity for exposure arises contact)
	PROC8a: Transfer of substance or preparation (charging/ discharging) from/to vessels/large containers at non-dedicated
	facilities
	PROC8b: Transfer of substance or preparation (charging/discharging
	from/to vessels/large containers at dedicated facilities
	PROC9: Automated filling of lubricant container
	PROC10: Automated roller application or brushing of coatings PROC11: Non industrial spraying
	PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC8a: Wide dispersive indoor use of processing aids in open
,	systems
21.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process
	equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases,
	fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable
	levels. Use proper bonding and/or earthling procedures. However,
	bonding and earthling may not eliminate the hazard from static
	accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene Required where ventilation is insufficient or exposure is prolonged.
Respiratory protection	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
	cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not
	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical proper	
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulator/user information
mixture or article Service life of substances in articles	Formulator/user information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
	waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Not for consumer use
Waste management measures	When handling waste wear protective slothing. Do not allow to enter
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses Disposal should be in accordance
oui μιαο UI waote	with local, state or national legislation.
21.3 Exposure assessment	

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Heavy Alkyl Benzene (HAB)

Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
21.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 22: Professional - Professional end-use of concrete and asphalt concrete

22.1 Processes and activities covered by the expo	osure scenario
Sectors of use (SU)	SU0: Other, professional uses
Chemical product category (PC)	PC0: Other: Building and construction preparations
Process category (PROC)	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at dedicated facilities PROC13: Treatment of articles by dipping and pouring
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix
22.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthling procedures. However, bonding and earthling may not eliminate the hazard from static accumulation Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged. Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical propo	
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation / mixture or article	Formulator/user information
Service life of substances in articles	Formulator/user information

Heavy Alkyl Benzene (HAB)

Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses Disposal should be in accordance with local, state or national legislation.
22.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
22.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 23: Professional - Professional use as laboratory chemical

Sectors of use (SU)	SU24: Scientific research and development
Chemical product category (PC)	PC21: Laboratory chemicals
Process category (PROC)	PROC15: Use as laboratory reagent
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC8a: Wide dispersive indoor use of processing aids in open systems
23.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthling procedures. However, bonding and earthling may not eliminate the hazard from static accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged. Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location

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Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical proper	ties
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation / mixture or article	Formulator/use information
Service life of substances in articles	Formulator/use information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses Disposal should be in accordance with local, state or national legislation.
23.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	TRA Workers
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
23.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 24: Professional - Professional end-use of ink, toners, dyes, finishing and impregnation products on paper/board/textile/leather

Sectors of use (SU)	SU5: Manufacture of textiles, leather, fur
Chemical product category (PC)	PC18: Ink and toners
	PC23: Leather treatment products
	PC26: Paper and board treatment products
	PC30: Photo-chemicals
	PC34: Textile dyes, and impregnating products
Process category (PROC)	PROC8a: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at non-dedicated
	facilities
	PROC8b: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at dedicated facilities
	PROC9: Automated filling of lubricant container
	PROC10:Automated roller application or brushing of coatings
	PROC11:Non industrial spraying
	PROC13:Treatment of articles by dipping and pouring
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC8c: Wide dispersive indoor use resulting in inclusion into or on
	a matrix

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Heavy Alkyl Benzene (HAB)

24.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and
·	objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthling procedures. However, bonding and earthling may not eliminate the hazard from static accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged. Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical properties	
Product specification	
Physical form of the product Concentration of substance in preparation / mixture	Liquid Formulator/use information
or article Service life of substances in articles	Formulator/use information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses Disposal should be in accordance with local, state or national legislation.
24.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	TRA Workers
Exposure estimation Secondary Poisoning	Not known Not expected
Indirect exposure to humans via the environment	Not applicable
24.4 Other information	1 255200
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

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Exposure Scenario 25: Professional - Professional end-use of adhesive/sealants, polishes and wax blends

Sectors of use (SU)	SU9: Manufacture of fine chemicals
Chemical product category (PC)	PC1: Adhesives, sealants
	PC31: Polishes and wax blends
Process category (PROC)	PROC8a: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at non-dedicated
	facilities
	PROC8b: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at dedicated facilities
	PROC9: Automated filling of lubricant container
	PROC11: Non industrial spraying
	PROC13: Treatment of articles by dipping and pouring
Article Categories (AC)	Not applicable ERC8d: Wide dispersive outdoor use of processing aids in open
Environmental release categories (ERC)	systems
25.2 Operational conditions of use	- Cyclemo
·	Ocadharian and barraharian and barraharian
Control parameters	Good hygiene practices and housekeeping measures. Users to specify
Duration and frequency of use Maximum amount per time or activity	Users to specify Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and
Other operational conditions of use	objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process
Engineering control mousules	equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases,
	fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable
	levels. Use proper bonding and/or earthling procedures. However,
	bonding and earthling may not eliminate the hazard from static
	accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged.
	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
F	cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not
	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and
	management/supervision are in place
Information on basic physical and chemical proper Product specification	ties
Physical form of the product	Liquid
Concentration of substance in preparation / mixture or article	Formulator/use information
Service life of substances in articles	Formulator/use information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
0	required for the environment.
Consumer use	Not for consumer use
Waste management measures	M/han handling weeks were made this all-this a Daniel all
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter
SULDIUS OF MASIE	drains, sewers or watercourses Disposal should be in accordance
ourpius or waste	with local, state or national legislation.

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25.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	TRA Workers
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
25.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 26: Professional - Professional end-use of welding and soldering products, flux products

26.1 Processes and activities covered by the expos	
Sectors of use (SU)	SU15: Manufacture of fabricated metal products, except machinery and equipment
Chemical product category (PC)	PC38: Welding and soldering products, flux products
Process category (PROC)	PROC10: Automated roller application or brushing of coatings PROC13: Treatment of articles by dipping and pouring PROC25:Other hot work operations with metals Welding, soldering, gouging, brazing, flame cutting
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix
26.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work proces equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthling procedures. However, bonding and earthling may not eliminate the hazard from static accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged. Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location
Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical proper	ties
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation / mixture or article	Formulator/use information
Service life of substances in articles	

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Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses Disposal should be in accordance with local, state or national legislation.
26.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	TRA Workers
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
26.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 27: Professional - Professional end-use as extraction agent

27.1 Processes and activities covered by the exposure scenario	
Sectors of use (SU)	SU0: Other, professional uses
Chemical product category (PC)	PC40: Extraction agents
Process category (PROC)	PROC3: Use in closed batch process (synthesis or formulation) PROC8a: Transfer of substance or preparation (charging/ discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/to vessels/large containers at dedicated facilities
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC8a: Wide dispersive indoor use of processing aids in open systems
27.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Use proper bonding and/or earthling procedures. However, bonding and earthling may not eliminate the hazard from static accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged. Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers are in the proximity to work-station location

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Other information	Avoid repeated and/or prolonged skin contact with product. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. Avoid contact with the substance or contaminated objects, Ensure regular cleaning of equipment and work area, good personal hygiene, staff training and management/supervision are in place
Information on basic physical and chemical properti	
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation/mixture or article	Formulator/use information
Service life of substances in articles	Formulator/use information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses Disposal should be in accordance with local, state or national legislation.
27.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
Method	TRA Workers
Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
27.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 28: Professional - Professional end-use of fuels

Sectors of use (SU)	SU0: Other, professional uses
Chemical product category (PC)	PC13: Fuels
Process category (PROC)	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC16: Use of fuels
Article Categories (AC)	Not applicable
Environmental release categories (ERC)	ERC9b: Wide dispersive outdoor use of substances in closed systems
28.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools and objects. Before use read the labels and Safety Data Sheet.

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	T
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work process
	equipment should be checked to ensure they comply with the
	requirements of environmental protection legislation. In some cases,
	fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable
	levels. Use proper bonding and/or earthling procedures. However,
	bonding and earthling may not eliminate the hazard from static
	accumulation. Exposure limit values: Not known. For lamp oils and
	grill lighters, follow the provisions of REACH –Annex XVII, including:
	Marketing in black opaque containers not exceeding 1litre. To Label
Other Destanting Familians and	with specific safe use instruction
Other Protective Equipment	Good standard of personal hygiene Required where ventilation is insufficient or exposure is prolonged.
Respiratory protection	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
Hand protection	cracking. Can use skin creams
Eve protection	Wear safety goggles or face shield. Ensure eye wash and showers
Eye protection	
Other information	are in the proximity to work-station location Avoid repeated and/or prolonged skin contact with product. Do not
Other information	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects, Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and
	management/supervision are in place
Information on basic physical and chemical prope	
mormation on sacro physical and onomical propo	
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulator/use information
mixture or article	, simulation, ass in simulation
Service life of substances in articles	Formulator/use information
Risk Management Measures	
Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Not for consumer use
Waste management measures	
Description and information on safe handling of	When handling waste wear protective clothing. Do not allow to enter
surplus or waste	drains, sewers or watercourses Disposal should be in accordance
	with local, state or national legislation.
28.3 Exposure assessment	
•	
Human avaccure prediction	
Human exposure prediction	Chart tame during famoulation 1 contame and the
Workers	Short term during formulation. Long term exposure during use.
	Exposure can occur during filling, emptying and system. Use of PPE
Workers	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Workers Consumers	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use
Workers Consumers Method	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers
Workers Consumers Method Exposure estimation	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers Not known
Consumers Method Exposure estimation Secondary Poisoning	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers Not known Not expected
Consumers Method Exposure estimation Secondary Poisoning	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers Not known
Consumers Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers Not known Not expected
Consumers Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 28.4 Other information	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers Not known Not expected
Consumers Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 28.4 Other information Control parameters	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers Not known Not expected Not applicable Refer to the eSDS
Consumers Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 28.4 Other information	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers Not known Not expected Not applicable Refer to the eSDS Management/supervision to check that the RMMs in place are being
Consumers Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 28.4 Other information Control parameters	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers Not known Not expected Not applicable Refer to the eSDS Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive
Consumers Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 28.4 Other information Control parameters	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers Not known Not expected Not applicable Refer to the eSDS Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals.
Consumers Method Exposure estimation Secondary Poisoning Indirect exposure to humans via the environment 28.4 Other information Control parameters	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance Not for consumer use TRA Workers Not known Not expected Not applicable Refer to the eSDS Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive

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Exposure Scenario 29: Professional - Professional end-use in Agrochemicals

04	Olds Assistable as force 1
Sectors of use (SU) Chamical product category (BC)	SU1: Agriculture, forestry and fishing
Chemical product category (PC)	PC0: Other, professional uses
Process category (PROC)	PROC8a: Transfer of substance or preparation (charging/
	discharging) from/to vessels/large containers at non-dedicated facilities
	PROC11: Non industrial spraying
	. , ,
Article Categories (AC) Environmental release categories (ERC)	Not applicable ERC8d: Wide dispersive outdoor use of processing aids in open
Environmental release categories (ENC)	systems
29.2 Operational conditions of use	
Control parameters	Good hygiene practices and housekeeping measures.
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills. Avoid contact with contaminated tools
	and objects. Before use read the labels and Safety Data Sheet.
Engineering control measures	Keep area well ventilated. Emissions from ventilation or work
	process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some
	cases, fume scrubbers, filters or engineering modifications to the
	process equipment will be necessary to reduce emissions to
	acceptable levels. Use proper bonding and/or earthling procedures.
	However, bonding and earthling may not eliminate the hazard from
	static accumulation. Exposure limit values: Not known
Other Protective Equipment	Good standard of personal hygiene
Respiratory protection	Required where ventilation is insufficient or exposure is prolonged. Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
	cracking. Can use skin creams
Eye protection	Wear safety goggles or face shield. Ensure eye wash and showers
Other information	are in the proximity to work-station location Avoid repeated and/or prolonged skin contact with product. Do not
Other information	ingest, risk of aspiration in the trachea, may be fatal. If swallowed
	then seek immediate medical assistance. Avoid contact with the
	substance or contaminated objects. Ensure regular cleaning of
	equipment and work area, good personal hygiene, staff training and
Information on basic physical and chemical proper	management/supervision are in place
Product specification	Liquid
Physical form of the product Concentration of substance in preparation /	Liquid Formulator/use information
mixture or article	1 omidiator/use information
Service life of substances in articles	Formulator/use information
Risk Management Measures Occupational exposure controls	Local Exhaust Ventilation
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
Environmental Exposure Controls	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
0	required for the environment.
Consumer use Waste management measures	Not for consumer use
Description and information on safe handling of	When handling waste wear protective clothing. Do not allow to
surplus or waste	enter drains, sewers or watercourses Disposal should be in accordance with local, state or national legislation.
29.3 Exposure assessment	<u> </u>
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use.
	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Not for consumer use
	TRA Workers

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Exposure estimation	Not known
Secondary Poisoning	Not expected
Indirect exposure to humans via the environment	Not applicable
29.4 Other information	
Control parameters	Refer to the eSDS
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training wit regular updates in the handling of chemicals

Exposure Scenario 30: Consumer - Consumer end-use as auxiliary and marine diesel fuels

30.1 Processes and activities covered by the expos	ure scenario
Sector of end use (SU)	SU0: Other, consumer uses
Chemical product category (PC)	PC13: Fuels
Process category (PROC)	Not applicable
Article Categories (AC)	Not applicable
Environmental release category (ERC)	ERC9b: Wide dispersive outdoor use of substances in closed systems
30.2 Operational conditions of use	
Control parameters	Implement basic standards of occupational hygiene
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills.
Engineering control measures	Keep area well ventilated. Exposure limit values: Not known.
Other protective equipment	Good hygiene and housekeeping
Respiratory protection	Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye Protection	Wear protective eyewear (goggles, face shield, or safety glasses).
Other information	Implement basic standards of occupational hygiene. Keep out of reach of children. Read the label and instructions before use. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed ther seek immediate medical assistance. For lamp oils and grill lighters, follow the provisions of REACH –Annex XVII, including: -Marketing in black opaque containers not exceeding 1litre. To Label with specific
Information on basic physical and chemical propert	safe use instruction ties
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulator/use information
mixture or article	Favorilatorius information
Service life of substances in articles Risk Management Measures	Formulator/use information
Occupational exposure controls	Keep area well ventilated
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil.
Environmental Exposure controls	waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.
Consumer use	Good hygiene practices and housekeeping measures. Keep out of reach of children. Read the label and instructions before use.
Waste management measures	
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses. Do not ingest, risk of aspiration in the trachea, may be fatal. Disposal should be in accordance with local, state or national legislation.
30.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Long term exposure to low concentrations during application/use. Use of PPE will to minimise handling and contact.

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Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not to be expected
Indirect exposure to humans via the environment	Not to be expected
30.4 Other information	
Control parameters	Refer to the eSDS/label
Method to check compliance	Implement basic standards of occupational hygiene. Keep out of reach of children. Read the label and instructions before use. Do not ingest, risk of aspiration in the trachea, may be fatal. If swallowed then seek immediate medical assistance. For lamp oils and grill lighters, follow the provisions of REACH –Annex XVII, including: -Marketing in black opaque containers not exceeding 1litre. To Label with specific safe use instruction

Exposure Scenario 31: Consumer - Consumer end-use of lubricants and greases - closed system

31.1 Processes and activities covered by the expos	sure scenario
Sector of end use (SU)	SU0: Other, consumer uses
Chemical product category (PC)	PC24: Lubricants, greases, release products
Process category (PROC)	Not applicable
Article Categories (AC)	Not applicable
Environmental release category (ERC)	ERC9a: Wide dispersive indoor use of substances in closed systems
31.2 Operational conditions of use	
Control parameters	Implement basic standards of occupational hygiene
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills.
Engineering control measures	Keep area well ventilated. Exposure limit values: Not known.
Other protective equipment	Good hygiene and housekeeping
Respiratory protection	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
	cracking. Can use skin creams
Eye Protection	Wear protective eyewear (goggles, face shield, or safety glasses).
Other information	Implement basic standards of occupational hygiene. Keep out of reach of children. Read the label and instructions before use. Do not ingest,
	risk of aspiration in the trachea, may be fatal. To Label with specific
	safe use instruction
Information on basic physical and chemical proper	ties
Product specification	1:
Physical form of the product Concentration of substance in preparation /	Liquid Formulator/use information
mixture or article	Formulator/use information
Service life of substances in articles	Formulator/use information
Risk Management Measures	1 offidiator/use information
Occupational exposure controls	Keep area well ventilated
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
Environmental Expedito Controlo	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Good hygiene practices and housekeeping measures. Keep out of reach of children. Read the label and instructions before use.
Waste management measures	
Description and information on safe handling of	When handling waste wear protective clothing. Do not allow to enter
surplus or waste	drains, sewers or watercourses. Do not ingest, risk of aspiration in the
	trachea, may be fatal. Disposal should be in accordance with local, state or national legislation.
31.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use.
	Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance

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	of PPE will to minimise handling and contact.
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not to be expected
Indirect exposure to humans via the environment	Not to be expected
31.4 Other information	
Control parameters	Refer to the eSDS/label
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training with regular updates in the handling of chemicals. Ensure users receive adequate handling/safety information at point of sale.

Exposure Scenario 32: Consumer - Consumer end-use of lubricants and greases -open systems

Sector of end use (SU)	SU0: Other, consumer uses
Chemical product category (PC)	PC24: Lubricants, greases, release products
Process category (PROC)	Not applicable
	Not applicable Not applicable
Article Categories (AC)	
Environmental release category (ERC)	ERC8a: Wide dispersive indoor use of processing aids in open systems
	ERC8d: Wide dispersive outdoor use of processing aids in open
	systems
32.2 Operational conditions of use	
Control parameters	Implement basic standards of occupational hygiene
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills.
Engineering control measures	Keep area well ventilated. Exposure limit values: Not known.
Other protective equipment	Good hygiene and housekeeping
Respiratory protection	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
	cracking. Can use skin creams
Eye Protection	Wear protective eyewear (goggles, face shield, or safety glasses).
Other information	Implement basic standards of occupational hygiene. Keep out of reach
	of children. Read the label and instructions before use. Do not ingest,
	risk of aspiration in the trachea, may be fatal. To Label with specific safe use instruction
Information on basic physical and chemical proper	
Product specification	ues
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulator/use information
mixture or article	1 officiator/use information
Service life of substances in articles	Formulator/use information
Risk Management Measures	
Occupational exposure controls	Keep area well ventilated
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Good hygiene practices and housekeeping measures. Keep out of
	reach of children. Read the label and instructions before use.
Waste management measures	
Description and information on safe handling of	When handling waste wear protective clothing. Do not allow to enter
surplus or waste	drains, sewers or watercourses. Do not ingest, risk of aspiration in the
	trachea, may be fatal. Disposal should be in accordance with local,
	state or national legislation.

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32.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance
Consumers	Long term exposure to low concentrations during application/use. Use of PPE will to minimise handling and contact.
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not to be expected
Indirect exposure to humans via the environment	Not to be expected
32.4 Other information	
Control parameters	Refer to the eSDS/label
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training with regular updates in the handling of chemicals. Ensure users receive adequate handling/safety information at point of sale.

Exposure Scenario 33: Consumer - Consumer end-use of washing and cleaning products

Sector of end use (SU)	SU0: Other, consumer uses
Chemical product category (PC)	PC35: Washing and cleaning products (including solvent based
	products)
Process category (PROC)	Not applicable
Article Categories (AC)	Not applicable
Environmental release category (ERC)	ERC8a: Wide dispersive indoor use of processing aids in open
	systems
	ERC8d: Wide dispersive outdoor use of processing aids in open
	systems
33.2 Operational conditions of use	
Control parameters	Implement basic standards of occupational hygiene
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills.
Engineering control measures	Keep area well ventilated. Exposure limit values: Not known.
Other protective equipment	Good hygiene and housekeeping
Respiratory protection	Do not ingest, risk of aspiration in the trachea, may be fatal.
	(Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or
	cracking. Can use skin creams
Eye Protection	Wear protective eyewear (goggles, face shield, or safety glasses).
Other information	Implement basic standards of occupational hygiene. Keep out of reach
	of children. Read the label and instructions before use. Do not ingest,
	risk of aspiration in the trachea, may be fatal. To Label with specific safe use instruction
Information on book whereign and about on any	
Information on basic physical and chemical prop Product specification	perties
Physical form of the product	Liquid
Concentration of substance in preparation /	Formulator/use information
mixture or article	1 officiator/use information
Service life of substances in articles	Formulator/use information
Risk Management Measures	
Occupational exposure controls	Keep area well ventilated
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil,
	waterways, drains and sewers. The substance does not meet the
	criteria to be classified dangerous for the environmental hazards
	therefore exposure assessment and risk characterization is not
	required for the environment.
Consumer use	Good hygiene practices and housekeeping measures. Keep out of reach of children. Read the label and instructions before use.

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Waste management measures		
Description and information on safe handling of surplus or waste	When handling waste wear protective clothing. Do not allow to enter drains, sewers or watercourses. Do not ingest, risk of aspiration in the trachea, may be fatal. Disposal should be in accordance with local, state or national legislation.	
33.3 Exposure assessment		
Human exposure prediction		
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance	
Consumers	Long term exposure to low concentrations during application/use. Use of PPE will to minimise handling and contact.	
Method	Not applicable	
Exposure estimation	Not known	
Secondary Poisoning	Not to be expected	
Indirect exposure to humans via the environment	Not to be expected	
33.4 Other information		
Control parameters	Refer to the eSDS/label	
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training with regular updates in the handling of. Chemicals. Ensure users receive adequate handling/safety information at point of sale.	

Exposure Scenario 34: Consumer - Consumer end-use of ink and toners

34.1 Processes and activities covered by the exposure scenario	
Sector of end use (SU)	SU0: Other, consumer uses
Chemical product category (PC)	PC18: Ink and Toners
Process category (PROC)	Not applicable
Article Categories (AC)	Not applicable
Environmental release category (ERC)	ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix
34.2 Operational conditions of use	
Control parameters	Implement basic standards of occupational hygiene
Duration and frequency of use	Users to specify
Maximum amount per time or activity	Users to specify
Other operational conditions of use	Avoid splashes and spills.
Engineering control measures	Keep area well ventilated. Exposure limit values: Not known.
Other protective equipment	Good hygiene and housekeeping
Respiratory protection	Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams
Eye Protection	Wear protective eyewear (goggles, face shield, or safety glasses).
Other information	Implement basic standards of occupational hygiene. Keep out of reach of children. Read the label and instructions before use. Do not ingest, risk of aspiration in the trachea, may be fatal. To Label with specific safe use instruction
Information on basic physical and chemical prop	perties
Product specification	
Physical form of the product	Liquid
Concentration of substance in preparation / mixture or article	Formulator/use information
Service life of substances in articles	Formulator/use information
Risk Management Measures	
Occupational exposure controls	Keep area well ventilated
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.

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Consumer use	Good hygiene practices and housekeeping measures. Keep out of reach of children. Read the label and instructions before use.
Waste management measures	
Description and information on safe handling of	When handling waste wear protective clothing. Do not allow to enter
surplus or waste	drains, sewers or watercourses. Do not ingest, risk of aspiration in the trachea, may be fatal. Disposal should be in accordance with local, state or national legislation.
34.3 Exposure assessment	
Human exposure prediction	
Workers	Short term during formulation. Long term exposure during use.
	Exposure can occur during filling, emptying and system. Use of PPE
	will to minimise handling and contact maintenance
Consumers	Long term exposure to low concentrations during application/use. Use
	of PPE will to minimise handling and contact.
Method	Not applicable
Exposure estimation	Not known
Secondary Poisoning	Not to be expected
Indirect exposure to humans via the environment	Not to be expected
34.4 Other information	
Control parameters	Refer to the eSDS/label
Method to check compliance	Management/supervision to check that the RMMs in place are being
	used correctly and OCs followed. Ensure staff and workers receive
	adequate training with regular updates in the handling of chemicals.
	Ensure users receive adequate handling/safety information at point of
	sale.

Exposure Scenario 35: Consumer - Consumer end-use of polishes and waxes

35.1 Processes and activities covered by the exposure scenario		
Sector of end use (SU)	SU0: Other, consumer uses	
Chemical product category (PC)	PC31: Polishes and wax blends	
Process category (PROC)	Not applicable	
Article Categories (AC)	Not applicable	
Environmental release category (ERC)	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8d: Wide dispersive outdoor use of processing aids in open systems	
35.2 Operational conditions of use		
Control parameters	Implement basic standards of occupational hygiene	
Duration and frequency of use	Users to specify	
Maximum amount per time or activity	Users to specify	
Other operational conditions of use	Avoid splashes and spills.	
Engineering control measures	Keep area well ventilated. Exposure limit values: Not known.	
Other protective equipment	Good hygiene and housekeeping	
Respiratory protection	Do not ingest, risk of aspiration in the trachea, may be fatal. (Aspiration toxicity R65)	
Hand protection	Rubber or PVC gloves. Prolonged use may cause skin dryness or cracking. Can use skin creams	
Eye Protection	Wear protective eyewear (goggles, face shield, or safety glasses).	
Other information	Implement basic standards of occupational hygiene. Keep out of reach of children. Read the label and instructions before use. Do not ingest, risk of aspiration in the trachea, may be fatal. To Label with specific safe use instruction	
Information on basic physical and chemical properti	es	
Product specification		
Physical form of the product	Liquid	
Concentration of substance in preparation / mixture or article	Formulator/use information	
Service life of substances in articles	Formulator/use information	
Risk Management Measures		
Occupational exposure controls	Keep area well ventilated	
Environmental Exposure Controls	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. The substance does not meet the criteria to be classified dangerous for the environmental hazards therefore exposure assessment and risk characterization is not required for the environment.	

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Consumer use	Good hygiene practices and housekeeping measures. Keep out of reach	
	of children. Read the label and instructions before use.	
Waste management measures		
Description and information on safe handling of	When handling waste wear protective clothing. Do not allow to enter	
surplus or waste	drains, sewers or watercourses. Do not ingest, risk of aspiration in the trachea, may be fatal. Disposal should be in accordance with local, state or national legislation.	
35.3 Exposure assessment		
Human exposure prediction		
Workers	Short term during formulation. Long term exposure during use. Exposure can occur during filling, emptying and system. Use of PPE will to minimise handling and contact maintenance	
Consumers	Long term exposure to low concentrations during application/use. Use of PPE will to minimise handling and contact.	
Method	Not applicable	
Exposure estimation	Not known	
Secondary Poisoning	Not to be expected	
Indirect exposure to humans via the environment	Not to be expected	
35.4 Other information		
Control parameters	Refer to the eSDS/label	
Method to check compliance	Management/supervision to check that the RMMs in place are being used correctly and OCs followed. Ensure staff and workers receive adequate training with regular updates in the handling of chemicals. Ensure users receive adequate handling/safety information at point of sale.	

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