Safety Data Sheet



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

1.1 Product identifier

Delo XLI Corrosion Inhibitor - Concentrate

Product Number(s): 219900, 236540, 510586, 513514, 803149

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

Formulation & (re)packing of substances and mixtures

Use as antifreeze/coolant

1.3 Details of the supplier of the safety data sheet

Chevron Products UK Limited 1 Westferry Circus Canary Wharf London E14 4HA United Kingdom

email: eumsds@chevron.com

1.4 Emergency telephone number

Transportation Emergency Response

Europe: 0044/(0)18 65 407333 and CHEMTREC: +1 703 527 3887

Health Emergency

Chevron Emergency Information Center: Located in the USA, international calls accepted 24 hours: +1

510 231 0623

Europe: 0044/(0)18 65 407333

Product Information

Product Information: FAX number: 0044/20 77 19 5171

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLP CLASSIFICATION:

Reproductive toxicant (developmental): Category 1B, H360D; May damage the unborn child.

2.2 Label elements

Under the criteria of GB CLP:

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Signal Word: Danger

HAZARD STATEMENTS:

Health Hazards:

· May damage the unborn child (H360D).

- contains: Sodium 2-ethylhexanoate

Imidazole

PRECAUTIONARY STATEMENTS:

Prevention:

• Obtain special instructions before use (P201).

- Do not handle until all safety precautions have been read and understood (P202).
- · Wear protective gloves, protective clothing, eye protection, and face protection (P280).

Response:

• IF exposed or concerned: Get medical advice/attention (P308+P313).

Storage:

Store locked up (P405).

Disposal:

• Dispose of contents and container in accordance with applicable local, regional, national, and international regulations (P501).

2.3 Other hazards

This material does not contain a substance considered to have endocrine disrupting properties at levels of 0.1% weight or higher. This material does not contain a substance considered to be PBT or vPvB at levels of 0.1% weight or higher.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures

This material is a mixture.

COMPONENTS	CAS	EC	REGISTRATION	GB CLP	AMOUNT
	NUMBER	NUMBER	NUMBER	CLASSIFICATION	
Sodium 2- ethylhexanoate	19766-89-3	243-283-8	**	Repr. 1B/H360d	10 - 30 %weight
Tolyltriazole	29385-43-1	249-596-6	**	Aquatic Chronic 2/H411; Acute Tox. 4/H302; Repr. 2/H361d	1 - < 2.5 %weight
Imidazole	288-32-4	206-019-2	**	Eye Dam. 1/H318; Acute Tox. 4/H302; Repr. 1B/H360d; Skin Corr. 1C/H314	0.1 - < 0.3 %weight

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The full text of all CLP H-statements is shown in Section 16.

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**Not available or substance is not currently required for registration under UK REACH.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

4.2 Most important symptoms and effects, both acute and delayed IMMEDIATE SYMPTOMS AND HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to be harmful.

Ingestion: Not expected to be harmful if swallowed. **Inhalation:** Not expected to be harmful if inhaled.

DELAYED OR OTHER SYMPTOMS AND HEALTH EFFECTS: This material may cause harm to the unborn child based on animal data.

See Section 11 for additional information. Risk depends on duration and level of exposure.

4.3 Indication of any immediate medical attention and special treatment needed Not applicable.

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

5.2 Special hazards arising from the substance or mixture

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Sodium, Nitrogen .

5.3 Advice for firefighters

This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Observe all relevant local and international regulations. Eliminate all sources of ignition in vicinity of spilled material. Keep out unnecessary and unprotected personnel. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions in the Exposure Controls/PersonalProtection section. Refer to Sections 5 and 8 for more information.

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6.2 Environmental precautions

Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater.

6.3 Methods and material for containment and cleaning up

Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil and dispose of in a manner consistent with applicable requirements. Place other contaminated materials in disposable containers and dispose of in a manner consistent with applicable requirements. Report spills to local authorities as appropriate or required.

6.4 Reference to other sections

See sections 8 and 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures: Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling. Keep out of the reach of children.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

7.2 Conditions for safe storage, including any incompatibilities

Not Applicable

7.3 Specific end use(s):

Formulation & (re)packing of substances and mixtures

Use as antifreeze/coolant

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

8.1 Control parameters

Occupational Exposure Limits: No applicable occupational exposure limits exist for this material or its components. Consult local authorities for appropriate values.

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8.2 Exposure controls

ENGINEERING CONTROLS:

Use general ventilation, local exhaust ventilation, or a combination of both.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

Skin Protection: Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. **Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced.** Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness (mm)	Typical Breakthrough Time (minutes)
Butyl	0.7	120
Neoprene	0.61	120
Nitrile	0.8	120
Polyvinyl Chloride (PVC)	1.1	120
Viton Butyl	0.3	120

Respiratory Protection: Not required for identified conditions of use.

ENVIRONMENTAL EXPOSURE CONTROLS:

See relevant Community environmental protection legislation or the Annex, as applicable.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

9.1 Information on basic physical and chemical properties

Appearance

Color: Green (fluorescent)
Physical State: Liquid
Odor: Faint or Mild

Odor Threshold: No data available

pH: 7.8 - 8.5; 5%volume @ 20°C (solution in water)

Melting Point: Not Applicable

Freezing Point: -5°C (23°F) (Typical)

Initial Boiling Point: 100°C (212°F) (Estimated)

Flashpoint: Not Applicable

Evaporation Rate: No data available **Flammability (solid, gas)**: No Data Available

Flammability (Explosive) Limits (% by volume in air):

Lower: No data available Upper: No data available

Vapor Pressure: No data available Relative Vapor Density: No data available

Density: 1.058 kg/l @ 20°C (68°F) **Solubility:** Soluble in water.

Partition coefficient n-octanol/water (logarithmic value): No data available

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Auto-ignition temperature: No data available **Decomposition temperature:** No data available

Kinematic Viscosity: No data available Explosive Properties: No Data Available Oxidising properties: No Data Available

9.2 Other Information: No Data Available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

10.2 Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions: Hazardous polymerization will not occur.

10.4 Conditions to Avoid: Not applicable

10.5 Incompatible materials to avoid: Not applicable

10.6 Hazardous decomposition products: None known (None expected)

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes

Product Information:

Serious Eye Damage/Irritation: The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Corrosion/Irritation: The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Sensitization: The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Dermal Toxicity: The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate (dermal): Not Applicable

Acute Oral Toxicity: The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate (oral): Not Applicable

Acute Inhalation Toxicity: The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate (inhalation): Not Applicable

Germ Cell Mutagenicity: The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Carcinogenicity: The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Reproductive Toxicity: This material may damage the unborn child. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

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Specific Target Organ Toxicity - Single Exposure: The material is not considered a target organ

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toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Repeated Exposure: The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Aspiration Hazard: The material is not considered an aspiration hazard.

Component Information:

John ponent information.	
Serious Eye Damage/Irritation:	
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Tolyltriazole	Based on available data, the classification criteria are not met
Imidazole	Test Result: Causes serious eye damage

Skin Corrosion/Irritation:	
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Tolyltriazole	Based on available data, the classification criteria are not met
Imidazole	Test Result: Causes severe skin burns and eye damage

Skin Sensitization:		
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met	
Tolyltriazole	Based on available data, the classification criteria are not met	
Imidazole	Based on available data, the classification criteria are not met	

Acute Dermal Toxicity:		
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met	
Tolyltriazole	Based on available data, the classification criteria are not met	
Imidazole	Based on available data, the classification criteria are not met	

Acute Oral Toxicity:		
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met	
Tolyltriazole	Test Qualifier: LD50	
	Test Result: 720 mg/kg	
	Species: rat	
Imidazole	Test Qualifier: LD50	
	Test Result: 970 mg/kg	
	Species: rat	

Acute Inhalation Toxicity:		
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met	
Tolyltriazole	Based on available data, the classification criteria are not met	
Imidazole	Based on available data, the classification criteria are not met	

Germ Cell Mutagenicity:	
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Tolyltriazole	Based on available data, the classification criteria are not met
Imidazole	Based on available data, the classification criteria are not met

Carcinogenicity:		
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met	
Tolyltriazole	Based on available data, the classification criteria are not met	
Imidazole	Based on available data, the classification criteria are not met	

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Reproductive Toxicity:	
Sodium 2-ethylhexanoate	Protocol: Developmental Toxicity Study Test Result: May damage fertility or the unborn child if ingested based on animal data
Sodium 2-ethylhexanoate	Protocol: OECD 415 - One-Generation Reproduction Toxicity Test Result: May damage fertility or the unborn child if ingested based on animal data
Tolyltriazole	Test Result: Suspected of damaging fertility or the unborn child
Imidazole	Test Result: May damage fertility or the unborn child if ingested
Imidazole	Test Result: May damage fertility or the unborn child if ingested based on human data

Specific Target Organ Toxicity - Single Exposure:	
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Tolyltriazole	Based on available data, the classification criteria are not met
Imidazole	Based on available data, the classification criteria are not met

Specific Target Organ Toxicity - Repeated Exposure:	
Sodium 2-ethylhexanoate Based on available data, the classification criteria are not met	
Tolyltriazole	Based on available data, the classification criteria are not met
Imidazole	Based on available data, the classification criteria are not met

ADDITIONAL TOXICOLOGY INFORMATION:

2-Ethylhexanoic acid (2-EXA) caused an increase in liver size and enzyme levels when repeatedly administered to rats via the diet. When administered to pregnant rats by gavage or in drinking water, 2-EXA caused teratogenicity (birth defects) and delayed postnatal development of the pups. Additionally, 2-EXA impaired female fertility in rats. Birth defects were seen in the offspring of mice who were administered sodium 2-ethylhexanoate via intraperitoneal injection during pregnancy.

11.2 Information on other hazards

No other hazards identified.

SECTION 12 ECOLOGICAL INFORMATION

Product Information:

12.1 Toxicity

This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

12.2 Persistence and degradability

This material is expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

12.3 Bioaccumulative potential

Bioconcentration Factor: No Data Available

Partition coefficient n-octanol/water (logarithmic value): No data available

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This material does not meet the criteria for PBT or vPvB.

12.6 Endocrine Disrupting Properties

This mixture does not contain any substances that are assessed as having endocrine disrupting

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properties.

12.7 Other adverse effects

No other adverse effects identified.

Component Information:

Acute Toxicity:	
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Tolyltriazole	Confidential test data
Imidazole	Based on available data, the classification criteria are not met

Long-term Toxicity:	
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Tolyltriazole	Confidential test data
lmidazole	Based on available data, the classification criteria are not met

Biodegradation:	
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Tolyltriazole	Test Result: Not readily biodegradable
	Biodegradation: 4%
Imidazole	Based on available data, the classification criteria are not met

Bioaccumulative Potential:		
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met	
Tolyltriazole	No test data available	
Imidazole	Based on available data, the classification criteria are not met	

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations. In accordance with European Waste Catalogue (E.W.C.) the codification is the following:16 01 14

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

ADR/RID

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

14.1 UN Number or ID Number: Not applicable **14.2 UN proper shipping name:** Not applicable **14.3 Transport hazard class(es):** Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Not applicable14.6 Special precautions for user: Not applicable

ICAO / IATA

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

14.1 UN Number or ID Number: Not applicable

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14.2 UN proper shipping name: Not applicable 14.3 Transport hazard class(es): Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Not applicable 14.6 Special precautions for user: Not applicable

IMO / IMDG

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

14.1 UN Number or ID Number: Not applicable 14.2 UN proper shipping name: Not applicable 14.3 Transport hazard class(es): Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Not applicable 14.6 Special precautions for user: Not applicable

14.7 Maritime Transport in Bulk according to IMO Instruments: Not applicable

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **REGULATORY LISTS SEARCHED:**

01=EU Directive 76/769/EEC: Restrictions on the marketing and use of certain dangerous substances.

02=EU Directive 90/394/EEC: Carcinogens at work.

03=EU Directive 92/85/EEC: Pregnant or breastfeeding workers.

04=EU Directive 2012/18/EU: Seveso III.

05=EU Directive 98/24/EC: Chemical agents at work.

06=EU Directive 2004/37/EC: On the protection of workers.

07=EU Regulation EC No. 689/2008: Annex 1, Part 1.

08=EU Regulation EC No. 689/2008: Annex 1, Part 2.

09=EU Regulation EC No. 689/2008: Annex 1, Part 3.

10=EU Regulation EC No. 850/2004: Prohibiting and restricting persistent organic pollutants (POPs).

11=EU REACH, Annex XVII: Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixture & article.

12=EU REACH, Annex XIV: Authorization List or Candidate List of Substances of Very High Concern for Authorization (SVHC).

The following components of this material are found on the regulatory lists indicated.

Sodium 2-ethylhexanoate 02, 03, 05, 11 Imidazole 02, 03, 05

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AIIC (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), KECI (Korea), PICCS (Philippines), TSCA (United States).

15.2 Chemical safety assessment

Yes

SECTION 16 OTHER INFORMATION

REVISION STATEMENT: SECTION 02 - Precautionary Statements information was modified.

SECTION 02 - Supplemental Hazard information was modified.

SECTION 03 - Composition information was modified.

SECTION 05 - Fire Fighters Protection Measures information was modified.

SECTION 05 - Special hazards arising from the substance or mixture information was modified.

SECTION 06 - Personal Precautions, Protective Equipment and Emergency Procedures information was

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modified.

SECTION 08 - Respiratory Protection information was added.

SECTION 08 - Respiratory Protection information was deleted.

SECTION 08 - Skin Protection information was modified.

SECTION 09 - Physical/Chemical Properties information was modified.

SECTION 11 - Toxicological Information information was modified.

SECTION 12 - Ecological Information information was modified.

SECTION 15 - Regulatory Information information was modified.

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Full text of CLP H-statements:

Aguatic Chronic 2/H411; Toxic to aguatic life with long lasting effects

Eye Dam. 1/H318; Causes serious eye damage

Acute Tox. 4/H302; Harmful if swallowed

Repr. 1B/H360D; May damage the unborn child

Repr. 2/H361d; Suspected of damaging the unborn child

Skin Corr. 1C/H314; Causes severe skin burns and eye damage

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
CVX - Chevron	CAS - Chemical Abstract Service Number
NQ - Not Quantifiable	

Prepared according to the UK REACH by Chevron.

The information in this SDS is based on the knowledge, information, and belief of Chevron and its affiliates as of the publication date. It is not a quality specification, and no warranty, express or implied, is given. We assume no responsibility or liability for the results of using this material. The information presented here pertains only to the listed product. Since conditions of use are beyond our control, it is the user's responsibility to determine the conditions for safe use of this product and assess its suitability for their application. Users should seek additional guidance if necessary.

Annex

Use as antifreeze/coolant - Industrial

Section 1	
Title	
Use as antifreeze/coolant	
Use Descriptor	
Sector(s) of Use	3
Process Categories	1, 2, 3, 4, 8a, 8b, 9
Environmental Release Categories	7
Specific Environmental Release Category	Not Applicable
Processes, tasks, activities covered	
Covers general use of coolant in vehicles in closed systems. Includes the filling and draining of containers and operation of enclosed machinery and associated maintenance and storage activities.	
Assessment Method	
See Section 3.	
Section 2 Operational conditions and risk management measures	

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Section 2.1 Control of worker exposure		
Product characteristics		
Physical form of product	Liquid, vapor pressure 0.004 kPa at 20°C	
Vapour Pressure	See above	
Concentration of substance in product	Covers percentage substance in the product up to 100 % (unless stated differently). [G13]	
Amount used	Not Applicable	
Frequency and duration of use/exposure	Covers up to (days/week): 5	
Human factors not influenced by risk management	None identified	
Other Operational Conditions affecting exposure	Not Applicable	

Contributing Scenarios Specific Risk Management Measures and Operating Conditions

[PROC 1] Use in closed process, no likelihood of exposure.

Covers more than 4 hours (unless stated differently).

Handle substance within a closed system. [E47]

Use suitable eye protection. [PPE26]

[PROC 2] Use in closed process with occasional controlled exposure.

Covers more than 4 hours (unless stated differently).

Handle substance within a closed system. [E47]

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17] Use suitable eye protection. [PPE26]

[PROC 3] Use in closed batch process (synthesis or formulation).

Covers more than 4 hours (unless stated differently).

Ensure good ventilation at the workstation.

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17] Use suitable eye protection. [PPE26]

[PROC 4] Use in batch or other process (synthesis) where opportunity for exposure arises.

Covers more than 4 hours (unless stated differently).

Provide enhanced general ventilation by mechanical means. [E48]

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17] Use suitable eye protection. [PPE26]

[PROC 8a] Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities.

Avoid carrying out activities involving exposure for more than 4 hours. [OC28]

Provide extract ventilation to points where emissions occur. [E54]

Effectiveness (of a measure): 90%

Use suitable eye protection. [PPE26]

If above technical/organisational control measures are not feasible, then adopt following PPE:. [PPE30]

Wear suitable respiratory protection.

Effectiveness (of a measure): 95%

[PROC 8b] Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities.

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Covers more than 4 hours (unless stated differently).

Provide extract ventilation to points where emissions occur. [E54]

Effectiveness (of a measure): 90%

Use suitable eye protection. [PPE26]

If above technical/organisational control measures are not feasible, then adopt following PPE:. [PPE30] Wear suitable respiratory protection.

Effectiveness (of a measure): 95%

[PROC 9] Transfer of substance or preparation into small containers (dedicated filling line, including weighing).

Covers more than 4 hours (unless stated differently).

Provide enhanced general ventilation by mechanical means. [E48]

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17] Use suitable eye protection. [PPE26]

Section 2.2 Control of environmental exposure

Product characteristics

Not Applicable

Amounts used

Maximum daily site tonnage (kg/day) [A4]: 2000

Frequency and duration of use

Emission Days (days/year) [FD4]: 300

Environmental factors not influenced by risk management

Local freshwater dilution factor [EF1]: 10

Local marine water dilution factor [EF2]: 100

Other given operational conditions affecting environmental exposure

Not Applicable

Technical conditions and measures at process level (source) to prevent release

Common practices vary across sites thus conservative process release estimates used. [TCS1]

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Prevent discharge of undissolved substance to or recover from onsite wastewater. [TCR14] User site assumed to be separate chemical and foul/rain water and be equipped with a WWTP. [ENVT15]

Organisation measures to prevent/limit release from site

Do not apply industrial sludge to natural soils. [OMS2]

Sludge should be incinerated, contained or reclaimed. [OMS3]

Conditions and measures related to municipal sewage treatment plant

Assumed domestic sewage treatment plant flow (m3/d) [STP5]: 2000

Conditions and measures related to external treatment of waste for disposal

External treatment and disposal of waste should comply with applicable local and/or national regulations. [ETW3]

Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or national regulations. [ERW1]

Section 3 Exposure Estimation

3.1. Health

The Risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

3.2. Environment

Used ECETOC TRA model. [EE1]

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Where other Risk Management Measures/Operational Conditions are adopted, then users should

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ensure that risks are managed to at least equivalent levels. [G23]

4.2. Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. [DSU1]

Use as antifreeze/coolant - Professional

Section 1		
Title		
Use as antifreeze/coolant		
Use Descriptor		
Sector(s) of Use		3
Process Categories		1, 2, 3, 4, 8a, 9
Environmental Release Cat	egories	9a, 9b
Specific Environmental Rele	ease Category	Not Applicable
Processes, tasks, activities	es covered	
Covers handling and dilution	n of functional fluids	
Assessment Method		
See Section 3.		
Section 2 Operational col	nditions and risk m	anagement measures
Section 2.1 Control of wo	rker exposure	
Product characteristics		
Physical form of product	Liquid, vapor pressu	ure 0.004 kPa at 20°C
Vapour Pressure	See above	
Concentration of	Covers percentage	substance in the product up to 100 % (unless stated
substance in product	differently). [G13]	
Amount used	Not Applicable	
Frequency and duration of use/exposure	Covers up to (days/week): 5	
Human factors not influenced by risk management	None identified	
Other Operational Conditions affecting	Not Applicable	

Contributing Scenarios Specific Risk Management Measures and Operating Conditions

[PROC 1] Use in closed process, no likelihood of exposure.

Covers more than 4 hours (unless stated differently). Handle substance within a closed system. [E47]

Use suitable eye protection. [PPE26]

exposure

[PROC 2] Use in closed process with occasional controlled exposure.

Covers more than 4 hours (unless stated differently).

Provide enhanced general ventilation by mechanical means. [E48]

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17] Use suitable eye protection. [PPE26]

[PROC 3] Use in closed batch process (synthesis or formulation).

Covers more than 4 hours (unless stated differently).

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Ensure good ventilation at the workstation.

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17] Use suitable eye protection. [PPE26]

[PROC 4] Use in batch or other process (synthesis) where opportunity for exposure arises.

Covers daily exposure up to 8 hours.

Use suitable eye protection. [PPE26]

[PROC 8a] Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities.

Avoid carrying out activities involving exposure for more than 1 hour. [OC27]

Provide extract ventilation to points where emissions occur. [E54]

Effectiveness (of a measure): 80%

Use suitable eye protection. [PPE26]

If above technical/organisational control measures are not feasible, then adopt following PPE:. [PPE30]

Wear suitable respiratory protection.

Effectiveness (of a measure): 80%

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17]

[PROC 9] Transfer of substance or preparation into small containers (dedicated filling line, including weighing).

Avoid carrying out activities involving exposure for more than 4 hours. [OC28]

Provide enhanced general ventilation by mechanical means. [E48]

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17] Use suitable eye protection. [PPE26]

Section 2.2 Control of environmental exposure

Product characteristics

Not Applicable

Amounts used

Maximum daily site tonnage (kg/day) [A4]: 1000

Frequency and duration of use

Emission Days (days/year) [FD4]: 300

Environmental factors not influenced by risk management

Local freshwater dilution factor [EF1]: 10

Local marine water dilution factor [EF2]: 100

Other given operational conditions affecting environmental exposure

Not Applicable

Technical conditions and measures at process level (source) to prevent release

Common practices vary across sites thus conservative process release estimates used. [TCS1]

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Prevent discharge of undissolved substance to or recover from onsite wastewater. [TCR14]

User site assumed to be separate chemical and foul/rain water and be equipped with a WWTP. IENVT151

Organisation measures to prevent/limit release from site

Do not apply industrial sludge to natural soils. [OMS2]

Sludge should be incinerated, contained or reclaimed. [OMS3]

Conditions and measures related to municipal sewage treatment plant

Assumed domestic sewage treatment plant flow (m3/d) [STP5]: 2000

Conditions and measures related to external treatment of waste for disposal

External treatment and disposal of waste should comply with applicable local and/or national regulations. [ETW3]

Conditions and measures related to external recovery of waste

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External recovery and recycling of waste should comply with applicable local and/or national regulations. [ERW1]

Section 3 Exposure Estimation

3.1. Health

The Risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

3.2. Environment

Used ECETOC TRA model. [EE1]

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23]

4.2. Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. [DSU1]

Formulation & (re)packing of substances and mixtures - Industrial

Section 1	
Title	
Formulation & (re)packing of substances and	mixtures
Use Descriptor	
Sector(s) of Use	3
Process Categories	1, 2, 3, 4, 5, 8a, 8b, 9
Environmental Release Categories	2
Specific Environmental Release Category Not Applicable	
Processes tasks activities covered	

Processes, tasks, activities covered

Covers general use of coolant in vehicles in closed systems. Includes the filling and draining of containers and operation of enclosed machinery and associated maintenance and storage activities.

Assessment Method

See Section 3.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure		
Product characteristics		
Physical form of product	Liquid, vapor pressure 0.004 kPa at 20°C	
Vapour Pressure	See above	
Concentration of	Covers percentage substance in the product up to 100 % (unless stated	
substance in product	differently). [G13]	
Amount used	Not Applicable	
Frequency and duration of	Covers up to (days/week): 5	
use/exposure		
Human factors not	None identified	
influenced by risk		
management		
Other Operational	Not Applicable	
Conditions affecting		
exposure		

Contributing Scenarios Specific Risk Management Measures and Operating Conditions

[PROC 1] Use in closed process, no likelihood of exposure.

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Covers more than 4 hours (unless stated differently).

Handle substance within a closed system. [E47]

Use suitable eye protection. [PPE26]

[PROC 2] Use in closed process with occasional controlled exposure.

Covers more than 4 hours (unless stated differently).

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17]

[PROC 3] Use in closed batch process (synthesis or formulation).

Covers more than 4 hours (unless stated differently).

Handle substance within a closed system. [E47]

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17] Use suitable eye protection. [PPE26]

[PROC 4] Use in batch or other process (synthesis) where opportunity for exposure arises.

Covers more than 4 hours (unless stated differently).

Provide enhanced general ventilation by mechanical means. [E48]

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17] Use suitable eye protection. [PPE26]

[PROC 5] Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact).

Avoid carrying out activities involving exposure for more than 4 hours. [OC28]

Provide enhanced general ventilation by mechanical means. [E48]

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17]

[PROC 8a] Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities.

Avoid carrying out activities involving exposure for more than 1 hour. [OC27]

Provide extract ventilation to points where emissions occur. [E54]

Effectiveness (of a measure): 90%

Use suitable eye protection. [PPE26]

If above technical/organisational control measures are not feasible, then adopt following PPE:. [PPE30]

Wear suitable respiratory protection.

Effectiveness (of a measure): 95%

[PROC 8b] Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities.

Avoid carrying out activities involving exposure for more than 4 hours. [OC28]

Provide extract ventilation to points where emissions occur. [E54]

Effectiveness (of a measure): 90%

Use suitable eye protection. [PPE26]

If above technical/organisational control measures are not feasible, then adopt following PPE:. [PPE30] Wear suitable respiratory protection.

Effectiveness (of a measure): 95%

[PROC 9] Transfer of substance or preparation into small containers (dedicated filling line, including weighing).

Covers more than 4 hours (unless stated differently).

Provide enhanced general ventilation by mechanical means. [E48]

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. [PPE17] Use suitable eye protection. [PPE26]

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Section 2.2 Control of environmental exposure

Product characteristics

Not Applicable

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Amounts used

Maximum daily site tonnage (kg/day) [A4]: 4545

Frequency and duration of use

Emission Days (days/year) [FD4]: 300

Environmental factors not influenced by risk management

Local freshwater dilution factor [EF1]: 10

Local marine water dilution factor [EF2]: 100

Other given operational conditions affecting environmental exposure

Not Applicable

Technical conditions and measures at process level (source) to prevent release

Common practices vary across sites thus conservative process release estimates used. [TCS1]

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Prevent discharge of undissolved substance to or recover from onsite wastewater. [TCR14] User site assumed to be separate chemical and foul/rain water and be equipped with a WWTP. [ENVT15]

Organisation measures to prevent/limit release from site

Do not apply industrial sludge to natural soils. [OMS2]

Sludge should be incinerated, contained or reclaimed. [OMS3]

Conditions and measures related to municipal sewage treatment plant

Assumed domestic sewage treatment plant flow (m3/d) [STP5]: 2000

Conditions and measures related to external treatment of waste for disposal

External treatment and disposal of waste should comply with applicable local and/or national regulations. [ETW3]

Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or national regulations. IERW11

Section 3 Exposure Estimation

3.1. Health

The Risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

3.2. Environment

Used ECETOC TRA model. [EE1]

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. [G23]

4.2. Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. [DSU1]

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