Safety Data Sheet



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

1.1 Product identifier

Delo XLC Antifreeze/Coolant - Concentrate

Product Number(s): 219901, 803135

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:

- Acute oral toxicant: Category 4, H302; Harmful if swallowed.
- Reproductive toxicant (developmental): Category 2, H361D; Suspected of damaging the unborn child.
- Target organ toxicant (repeated exposure): Category 2, H373; May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

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Under the criteria of Regulation (EC) No 1272/2008 (CLP):

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Signal Word: Warning

HAZARD STATEMENTS:

Health Hazards:

Harmful if swallowed (H302).

Suspected of damaging the unborn child (H361D).

May cause damage to organs (Kidney) through prolonged or repeated exposure (H373).

- contains: Ethylene glycol

Sodium 2-ethylhexanoate

PRECAUTIONARY STATEMENTS:

Prevention:

- Do not breathe dust/fume/gas/mist/vapours/spray (P260).
- Wear protective gloves/protective clothing/eye protection/face protection (P280).

Storage:

Store locked up (P405).

Disposal:

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

2.3 Other hazards

This product is not, or does not contain, a substance that is a potential PBT or a vPvB. This product is not, or does not contain, a substance that potentially has endocrine disrupting properties.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

This material is a mixture.

COMPONENTS	CAS NUMBER	EC NUMBER		CLP CLASSIFICATION	AMOUNT
Ethylene glycol	107-21-1	203-473-3	01-2119456816-28	Acute Tox. 4/H302; STOT RE 2/H373	80 - 98 %weig ht
Sodium 2- ethylhexanoate	19766-89-3	243-283-8	Exempt	Repr. 2/H361D	3 - 10 %weig ht

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

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

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and shoes or thoroughly clean before reuse.

Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

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: May be harmful if swallowed.

Inhalation: Breathing this material at concentrations above the recommended exposure limits may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

DELAYED OR OTHER SYMPTOMS AND HEALTH EFFECTS: This material may cause harm to the unborn child based on animal data. Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit: Kidney

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

Dry Chemical, CO2, Aqueous Film Forming Foam (AFFF) or alcohol resistant foam.

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 .

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

Eliminate all sources of ignition in vicinity of spilled material. Refer to Sections 5 and 8 for more information.

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.

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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. Do not breathe vapor or fumes. Wash thoroughly after handling.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

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 work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should 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:

Component	Country/ Agency	Form	TWA	STEL	Ceiling	Notation
Ethylene glycol	EU-Indicative		52 mg/m3	104 mg/m3	-	Skin
Ethylene glycol	United Kingdom	Particulate	10 mg/m3			Skin
Ethylene glycol	United	Vapor	52 mg/m3	104 mg/m3	-	Skin

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	Kingdom			
Ethylene glycol	United	 10 mg/m3	104 mg/m3	 Skin
	Kingdom			

Consult local authorities for appropriate values.

8.2 Exposure controls **ENGINEERING CONTROLS:**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits. Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Natural rubber, Neoprene, Nitrile Rubber, Polyvinyl Chloride (PVC or Vinyl).

Respiratory Protection: Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors, Dusts and Mists. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

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: Orange (fluorescent) Physical State: Liquid

Faint or Mild Odor:

Odor Threshold: No data available

8 - 9; 33%volume @ 20°C (solution in water)

Melting Point: Not Applicable

Freezing Point: -18°C (-0.4°F) (Typical) **Initial Boiling Point:** 175°C (347°F) (Estimated)

Flashpoint: (Pensky-Martens Closed Cup) 122 °C (252 °F) (Estimated)

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

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

No data available Upper: Lower: No data available

Vapor Pressure: No data available

Vapor Density (Air = 1): No data available Density: 1.1130 kg/l @ 20°C (68°F) (Typical)

Solubility: Soluble in water.

Partition coefficient: n-octanol/water: No data available **Auto-ignition temperature:** No data available **Decomposition temperature:** No data available

Viscosity: No data available

Explosive Properties: No Data Available Oxidising properties: No Data Available

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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:** Aldehydes (Elevated temperatures), Ketones (Elevated temperatures)

SECTION 11 TOXICOLOGICAL INFORMATION

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

Acute Toxicity Estimate (dermal): Not Applicable

Acute Oral Toxicity: This material is harmful if swallowed. The product has not been tested. The statement is based on evaluation of data for product components.

Acute Toxicity Estimate (oral): 1633 mg/kg

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 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 is suspected of damaging the unborn child. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Single Exposure: The material is not considered a target organ 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: This material may cause damage to organs

Delo XLC Antifreeze/Coolant -Concentrate MSDS: 46831 through prolonged or 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:

Serious Eye Damage/Irritation:	
	Based on available data, the classification criteria are not met
Ethylene glycol Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Socium 2-emymexanoate	pased on available data, the classification chieffa are not met
Skin Corrosion/Irritation:	
Ethylene glycol	Based on available data, the classification criteria are not met
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
	-
Skin Sensitization:	
Ethylene glycol	Based on available data, the classification criteria are not met
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Acute Dermal Toxicity:	
Ethylene glycol	Based on available data, the classification criteria are not met
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Sociali 2-cityinexanoate	pascu on available data, the diassilication chieffa are not met
Acute Oral Toxicity:	
Ethylene glycol	Test Qualifier: LD50
	Test Result: 1600 mg/kg
	Species: cat
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Acute Inhalation Toxicity:	
	Deced on available data the electification criteria are not met
Ethylene glycol	Based on available data, the classification criteria are not met
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Germ Cell Mutagenicity:	
Ethylene glycol	Based on available data, the classification criteria are not met
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Carcinogenicity:	
Ethylene glycol	Based on available data, the classification criteria are not met
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Reproductive Toxicity:	
-	Based on available data, the classification criteria are not met
Ethylene glycol Sodium 2-ethylhexanoate	Protocol: OECD 415 - One-Generation Reproduction Toxicity
Socium 2-emymexamoate	Test Result: Suspected of damaging fertility or the unborn child if ingested based
	on animal data
Sodium 2-ethylhexanoate	Protocol: Developmental Toxicity Study
	Test Result: Suspected of damaging fertility or the unborn child if ingested based
	on animal data
Specific Target Organ Toxicity -	Single Exposure:
Ethylene glycol	Based on available data, the classification criteria are not met
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Codiain 2 only moranoato	paced on available data, the diagonication officina are not met

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Specific Target Organ Toxicity - Repeated Exposure:		
Ethylene glycol	Test Result: May cause damage to organs through prolonged and repeated	
	exposure if ingested based on human data	
Ethylene glycol	Test Result: May cause damage to organs through prolonged and repeated	
	exposure if inhalation based on human data	
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met	

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains ethylene glycol (EG). The toxicity of EG via inhalation or skin contact is expected to be slight at room temperature. The estimated oral lethal dose is about 100 cc (3.3 oz.) for an adult human. Ethylene glycol is oxidized to oxalic acid which results in the deposition of calcium oxalate crystals mainly in the brain and kidneys. Early signs and symptoms of EG poisoning may resemble those of alcohol intoxication. Later, the victim may experience nausea, vomiting, weakness, abdominal and muscle pain, difficulty in breathing and decreased urine output. When EG was heated above the boiling point of water, vapors formed which reportedly caused unconsciousness, increased lymphocyte count, and a rapid, jerky movement of the eyes in persons chronically exposed. When EG was administered orally to pregnant rats and mice, there was an increase in fetal deaths and birth defects. Some of these effects occurred at doses that had no toxic effects on the mothers. We are not aware of any reports that EG causes reproductive toxicity in human beings.

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

Octanol/Water Partition Coefficient: No data available

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This product is not, or does not contain, a substance that is a potential PBT or a vPvB.

12.6 Endocrine Disrupting Properties

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

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12.7 Other adverse effects

No other adverse effects identified.

Component Information:

Acute Toxicity:	
Ethylene glycol	Based on available data, the classification criteria are not met
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Long-term Toxicity:	
Ethylene glycol	Based on available data, the classification criteria are not met
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met
Biodegradation:	
Ethylene glycol	Based on available data, the classification criteria are not met
Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met

Sodium 2-ethylhexanoate	Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Bioaccumulative Potential:

Ethylene glycol

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 applicable **14.6 Special precautions for user:** Not applicable

ADN

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

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ICAO / IATA

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

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 applicable14.6 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 96/82/EC (Seveso II): Article 9.

05=EU Directive 96/82/EC (Seveso II): Articles 6 and 7.

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

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

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

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

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

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

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

13=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.

Ethylene glycol 06

CHEMICAL INVENTORIES:

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

15.2 Chemical safety assessment

Yes

SECTION 16 OTHER INFORMATION

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

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- SECTION 02 Health Classification information was modified.
- SECTION 02 Precautionary Statements information was modified.
- SECTION 02 Supplemental Hazard information was modified.
- SECTION 02.2 Hazardous Component Identification List information was modified.
- SECTION 03 Composition information was modified.
- SECTION 08 Occupational Exposure Limit Table information was modified.
- SECTION 09 Physical/Chemical Properties information was modified.
- SECTION 11 Carcinogenicity information was added.
- SECTION 11 Germ Cell Mutagenicity information was added.
- SECTION 11 Reproductive Toxicity information was added.
- SECTION 11 Specific Target Organ Toxicity Repeated Exposure information was added.
- SECTION 11 Specific Target Organ Toxicity Single Exposure information was added.
- SECTION 11 Toxicological Information information was modified.
- SECTION 11.2 Other Hazards information was added.
- SECTION 12 Ecological Information information was modified.
- SECTION 12.6 Endocrine Disrupting Properties information was added.
- SECTION 14 ADN Classification information was added.
- SECTION 15 Regulatory Information information was modified.
- SECTION 16 Full Text of H-Statements information was modified.

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Full text of CLP H-statements:

Acute Tox. 4/H302; Harmful if swallowed

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

STOT RE 2/H373; May cause damage to organs through prolonged or repeated exposure

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 EU Regulation 1907/2006 (as amended) by Chevron Technical Center, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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

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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

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	Not Applicable	
exposure		

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]

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Effectiveness (of a measure): 90%

Use suitable eve 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.

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.

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

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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]

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 Categories	9a, 9b	
Specific Environmental Release Category	Not Applicable	
Processes, tasks, activities covered		
Covers handling and dilution of functional fluids		
Assessment Method		
See Section 3.		
Section 2 Operational conditions and risk management measures		
•	•	
0 1 0 4		

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		
Contribution Convenies Considia Diala Management Management and Constitutions		

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]

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[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).

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. [ENVT15]

Organisation measures to prevent/limit release from site

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

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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 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

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 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		

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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.

Covers more than 4 hours (unless stated differently).

Handle substance within a closed system. [E47]

Use suitable eve 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 eve 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).

Revision Number: 3 17 of 18 Revision Date: February 25, 2022 Concentrate MSDS: 46831 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]: 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.

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 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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