

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 3-7-2018 Revision date: 6-2-2020 Supersedes: 3-7-2018 Version: 1.1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

Mixture Antifreeze SP 14 10.10.03 Trade product

#### 1.1. Product identifier

Product form	:
Trade name	:
Product code	:
Product group	:

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

#### 1.2.1. Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

: Industrial use,Professional use,Consumer use : Antifreeze

#### 1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Kroon Oil BV Dollegoorweg 15 7602 EC Almelo - Netherlands T 0031 (0)546 81 81 65 vib@kroon-oil.nl

### **1.4. Emergency telephone number**

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Specific target organ toxicity — Repeated exposure, Category 2	H373
Full text of H statements : see section 16	

#### Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed.

#### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



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	GHS07 GHS08
Signal word (CLP)	: Warning
Hazardous ingredients	: 1,2-ethanediol
Hazard statements (CLP)	: H302 - Harmful if swallowed.
	H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand.
	P102 - Keep out of reach of children.
	P264 - Wash hands thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P314 - Get medical advice/attention if you feel unwell.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation.

## 2.3. Other hazards

### No additional information available

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

## Not applicable

## 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-ethanediol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28	≥ 50	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
disodium dioxomolybdenumbis(olate)	(CAS-No.) 10102-40-6 (EC-No.) 600-158-6	< 2,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures 4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Call a poison center or a doctor if you feel unwell.</li> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution.</li> <li>Rinse mouth. Call a poison center or a doctor if you feel unwell.</li> </ul>
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after ingestion	<ul> <li>Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.</li> <li>Ingestion may cause nausea, vomiting and diarrhea.</li> </ul>

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.

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Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up Other information	<ul><li>Take up liquid spill into absorbent material.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>	
6.4. Reference to other sections		

For further information refer to section 13.

SECTION 7: Handling and stor	age
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	

No additional information available

# SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
1,2-ethanediol (107-21-1)	
EU - Occupational Exposure Limits	
Local name	Ethylene glycol
IOELV TWA (mg/m <sup>3</sup> )	52 mg/m³
IOELV TWA (ppm)	20 ppm

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IOELV STEL (mg/m <sup>3</sup> )	104 mg/m³	
IOELV STEL (ppm)	40 ppm	
Notes	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits	; ;	
Local name	Ethane-1,2-diol	
WEL TWA (mg/m³)	10 mg/m³ particulate 52 mg/m³ vapour	
WEL TWA (ppm)	20 ppm vapour	
WEL STEL (mg/m³)	104 mg/m³ vapour	
WEL STEL (ppm)	40 ppm vapour	
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which the are concerns that dermal absorption will lead to systemic toxicity)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

## 8.2. Exposure controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥ 0.35		EN ISO 374

Eye protection:			
Safety glasses			
Туре	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



Environmental exposure controls: Avoid release to the environment.

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# **SECTION 9: Physical and chemical properties**

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9.1. Information	on basic	physical a	and chemical	properties

Physical state	: Liquid
Colour	: Green.
Odour	: characteristic.
Odour threshold	: No data available
рН	: 8,25 – 8,4
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -18 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 115 °C - ASTM D93 (PM)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,134 g/cm <sup>3</sup> (15 °C) - ASTM D4052
Solubility	: Water: Miscible
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 3,2 vol %
Upper explosive limit (UEL)	: 53 vol %

9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

**10.3. Possibility of hazardous reactions** 

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

**10.6. Hazardous decomposition products** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity (oral)

: Harmful if swallowed.

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Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
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Antifreeze SP 14	
ATE CLP (oral)	500 mg/kg bodyweight

1,2-ethanediol (107-21-1)				
LD50 oral rat 7712 mg/kg bodyweight Animal: rat				
LD50 dermal	3500 mg/kg bodyweight mouse			
LC50 inhalation rat (mg/l)	> 2,5 mg/l			
Skin corrosion/irritation	: Not classified			
	pH: 8,25 – 8,4			
Serious eye damage/irritation	: Not classified			
	pH: 8,25 – 8,4			
Respiratory or skin sensitisation	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			

1,2-ethanediol (107-21-1)				
NOAEL (chronic, oral, animal/male, 2 years)	1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)			
Reproductive toxicity :	Not classified			
STOT-single exposure :	Not classified			
STOT-repeated exposure :	May cause damage to organs through prolonged or repeated exposure.			
Aspiration hazard :	Not classified			

SECTION	12. Ecologias	linformation
SECTION	12: Ecologica	al information

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Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term	: Not classified
(acute)	
Hazardous to the aquatic environment, long-term	: Not classified
(chronic)	

1,2-ethanediol (107-21-1)	
LC50 fish	72860 mg/l Test organisms (species): Pimephales promelas
EC50 Daphnia	> 100 mg/l Test organisms (species): Daphnia magna
EC50 96h algae (1)	3536 mg/l Test organisms (species): other:grenn algae
EC50 96h algae (2)	6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'

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12.2. Persistence and degradability			
Antifreeze SP 14			
Persistence and degradability	Biodegradable.		
1,2-ethanediol (107-21-1)			
Biodegradation	90 % > 10d (OECD 301A method)		
12.3. Bioaccumulative potential			
1,2-ethanediol (107-21-1)			
Partition coefficient n-octanol/water (Log Kow)	-1,36		
12.4. Mobility in soil			
1,2-ethanediol (107-21-1)			
Partition coefficient n-octanol/water (Log Koc)	1		
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.6. Other adverse effects			

No additional information available

SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste treatment methods European List of Waste (LoW) code	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>16 01 14* - antifreeze fluids containing dangerous substances</li> </ul>

# **SECTION 14: Transport information**

ADR	IMDG	ΙΑΤΑ	ADN	RID
4.1. UN number	'	· · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippi	ng name	· · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)	· · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group	·	· · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental ha	zards	· · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

**Overland transport** Not applicable

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Transport by sea Not applicable

Air transport Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Indication of changes:			
Section	Changed item	Change	Comments
	Revision date	Added	
	Issue date	Modified	
2.2	Precautionary statements (CLP)	Modified	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association

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IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
LC50	Median lethal concentration
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.