# Kylarvätska Extrem ready-mixed

10.02.2020

# SAFETY DATA SHEET

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

### 1.1 Product identifier

Kylarvätska Extrem ready-mixed

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

Antifreeze liquid

### 1.3 Details of the supplier of the safety data sheet

Supplier

Agro Oil
Box 30192
104 25 Stockholm, Sweden
Telephone +46 (0)10-556 00 00
E-mail info@agrol.se

### 1.4 Emergency telephone number

In emergency situations, contact National Poisons Information Service

## SECTION 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

Acute Tox. 4, H302
STOT RE 2, H373

### 2.2 Label elements

**Hazard pictograms**

**Signal word**

WARNING

**Substances that contribute to the classification**

Ethane-1,2-diol

**Hazard statements**

H302 Harmful if swallowed.
H373 May cause damage to organs (kidney) through prolonged or repeated exposure.

**Precautionary statements**

| | |
|---|---|
| P102 | Keep out of reach of children. |
| P260 | Do not breathe dust/fume/ gas/mist/vapours/spray |
| P270 | Do not eat, drink or smoke when using this product. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. |
| P330 | Rinse mouth. |
| P501 | Dispose of contents/container to approved waste disposal facility in accordance with local regulations |

### 2.3 Other hazards

Ethylene glycol can be absorbed through the skin.

## SECTION 3. COMPOSITION/INFORMATION OM INGREDIENTS

### 3.2 Mixtures

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

| Name | EC no. | CAS no. | REACH reg no. | % (w/w) | Hazard statements |
|---|---|---|---|---|---|
| Ethane-1,2-diol (ethylene glycol) | 203-473-3 | 107-21-1 | 01-2119456816-28 | 40-<50 | Acute Tox. 4, H302<br>STOT RE 2, H373 |

**Other information**

For a full text of hazard statements: see Section 16

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

| | |
|---|---|
| After inhalation: | Fresh air and rest. If difficulties in breathing get medical advice. |
| After eye contact: | Rinse the eyes gently with water. If symptoms persist consult a doctor. |
| After skin contact: | Take off contaminated clothing. Wash skin with soap and water |
| After ingestion: | Rinse mouth and drink water. Do **not** induce vomiting. Contact a doctor if experiencing symptoms. |

### 4.2 Most important symptoms and effects, both acute and delayed

| | |
|---|---|
| Inhalation: | The vapours may at high concentrations cause dizziness, drowsiness and headache. |
| Eye: | May cause slight eye irritation. |
| Skin: | Causes degreasing. May cause mild skin irritation. |
| Ingestion: | Small amounts are not expected to produce any acute symptoms. Large amounts may cause nausea and vomiting. Repeated exposure through ingestion affects kidneys and the central nervous system and may cause headache, dizziness, nausea, vomiting, confusion and in serious cases, unconsciousness. |

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

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## SECTION 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media: Can be extinguished using dry powder, foam or carbon dioxide.
Unsuitable extinguishing media: Do not use direct water jet.

### 5.2 Special hazards arising from the substance or mixture

In case of fire, toxic and corrosive gases may develop.

### 5.3 Advice for firefighters

Precautions according to the standard procedure for chemical fires. Use water **only** to cool down containers that are exposed to fire.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin.

### 6.2 Environmental precautions

Do not allow discharge to enter sewers, watercourses or the ground.

### 6.3 Methods and material for containment and cleaning up

Contain/absorb spillages with suitable absorbent material such as sand or active clay. Disposal of waste must be in accordance with national regulations.

### 6.4 Reference to other sections

See Section 8 for Exposure controls / personal protection and Section 13 for disposal considerations..

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid prolonged or repeated contact with skin. Avoid inhalation of vapours, mist or fumes.
Do not reuse soiled clothing unless laundered.

### 7.2 Conditions for safe storage, including any incompatibilities

Containers must be kept tightly closed and sealed. Keep cool and dry. Keep out of reach of children.
Store at 5 – 35 °C.

### 7.3 Specifik end use

See Section 1.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Exposure limits according to National regulations**

| Name | CAS no. | TWA (8 h) | TWA (8 h) | STEL (15 min) | STEL (15 min) | Comment |
|---|---|---|---|---|---|---|
| | | ppm | mg/m3 | ppm | mg/m3 | |
| Ethylene glycol | 107-21-1 | | 10 | | | Particulate, sk |
| | | 20 | 52 | 10 | 104 | Vapour, sk |

This information refers to Great Britain.[1] For other countries, refer to national legislation.

[1]For Great Britain see: Health and Safety Executive EH40/2005 Workplace exposure limits (third edition, published 2018). Published by the Health and Safety Executive.

**Comments:**
Sk: Can be absorbed through the skin.

**Other information**

Ethylene glycol

DNEL (workers):
Dermal:106 mg/kg (repeated exposure, systemic)
Inhalation: 35 mg/m$^3$ (repeated exposure, local)

DNEL (consumers)
Dermal: 53 mg/kg (repeated exposure, systemic)
Inhalation: 7 mg/m$^3$ (repeated exposure, local)

### 8.2 Exposure controls

**Appropriate technical measures**

Ensure adequate ventilation. Use local exhaust ventilation in areas where emissions occur.

**Personal protection**

Respiratory protection: Use respiratory protection when insufficient ventilation. Respiratory mask with filter A (brown).

Eye/face protection: Wear eye protection (safety glasses with side shields or full face shield) when risk of splashing.

Skin protection: Wear protective gloves (nitrile, butyl rubber) and protective clothing.

**Environmental exposure control**

Prevent discharges into drains.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Appearence: | Green liquid |
| Odour: | Characteristic |
| Odour treshold: | No information |
| pH: | 7 - 9 |
| Melting point / freezing point: | <-36 °C |

| | |
|---|---|
| Initial boiling point and boiling range: | >100 °C |
| Flash point: | >60 °C |
| Evaporation rate: | No information |
| Flammability (solid, gas): | Not applicable |
| Upper / lower flammability or explosive limits: | No information |
| Vapour pressure: | 1863 Pa (20 °C)<br>9,82 kPa (50 °C) |
| Vapour density: | Not available |
| Density: | 1065-1075 kg/m$^3$ (20 °C |
| Solubility in water: | Soluble |
| Solubility in organic solvents | Soluble in polar solvents |
| Partition coefficient, n-octanol/water: | Not available |
| Decomposition temperature: | Not available |
| Auto-ignition temperature: | Not self-igniting |
| Viscosity, kinematic: | Not available |
| Explosive properties: | Not explosive |
| Oxidising properties: | Not relevant |

### 9.2 Other information

None.

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

The product is not reactive under normal conditions.

### 10.2 Chemical stability

The product is stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None known.

### 10.4 Conditions to avoid

Avoid open flames.

### 10.5 Incompatible materials

Avoid oxidants, strong acids and bases.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11. TOXIKOLOGICAL INFORMATION

### 11.1 Information on toxikological effects

**Acute toxicity**

Harmful if swallowed.

**Corrosive / irritating on the skin**

Causes degreasing. May cause mild skin irritation. Ethylene glycol can be absorbed through the skin.

**Serious eye damage / irritation**

May cause slight eye irritation.

**Respiratory / skin sensitization**

Not considered sensitizing.

**Germ cell mutagenicity**

It is considered not to cause mutations in germ cells.

**Carcinogenicity**

Not considered to be carcinogenic.

**Toxic to reproduction**

Not considered to be toxic to reproduction.
Contains a substance (potassium 2-ethylhexanoate) that is suspected of damaging fertility or the unborn child.

**Specific organ toxicity-single exposure**

The vapours may at high concentrations cause dizziness, drowsiness and headache. The central nervous system is affected if ingested.

**Specific organ toxicity-repeated exposure**

May cause damage to organs (kidney) through prolonged or repeated exposure. May cause headache, dizziness, nausea, vomiting, confusion and in serious cases, unconsciousness.

**Aspiration Hazard**

Considered not to be an aspiration hazard.

## SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as hazardous to the environment.

### 12.1 Toxicity

| | |
|---|---|
| Ethylene glycol | $LC_{50}$ Fish 96 h: >100 mg/L (species: Leuciscus idus)<br>$EC_{50}$ Daphnia 48 h: >100 mg/L (species: Daphnia magna)<br>$IC_{50}$ Algae 72 h: >100 mg/L |

### 12.2 Persistence and degradability

Ethylene glycol: Degradability: 90 - 100%, 10 d. (OECD 301A, aerobic, active sludge)

### 12.3 Bioaccumulative potential

Ethylene glycol BCF = 10
Log Pow = -1,36

Low potential for bioaccumulation.

### 12.4 Mobility in soil

The product is soluble in water and is considered to be mobile in soil.

Ethylene glycol: Koc = 0.

### 12.5 Results of PBT och vPvB assessment

Based on available information, this mixture contains no substance that meets the PBT or vPvB criteria according to Annex XIII to Regulation (EC) No. 1907/2006 (REACH).

### 12.6 Other adverse efffects

None known.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product**

Product residues, spills etc. are classified as hazardous waste. Disposal, transportation, storage and handling of the waste must be in accordance with national regulations. Product waste must not be allowed to contaminate soil or water, or released into the environment.

Classified as hazardous waste with hazard class HP 5 (Specific organ toxicity (STOT) and HP 6 (Acute toxicity).

Suggested waste code (EWC): 16 01 14* antifreeze fluids containing hazardous substances.

**Packaging**

EWC-code: 15 01 02, Plastic packaging
EWC-code: 15 01 04, Metallic packaging

Packaging containing product residues that are not drip dry must be handled as hazardous waste and disposed of properly sealed.
EWC-code: 15 01 10, Packaging containing residues of or contaminated by hazardous substances.

## SECTION 14. TRANSPORT INFORMATION

The product is not covered by the regulations for the transport of dangerous goods.

## SECTION 15. REGULATORY INFORMATION

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

This safety data sheet is prepared in accordance with the EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH) and Commission Regulation (EU) No 2015/830 of 28 May 2015 amending the European Parliament and Council Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH).

**Regulations**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substance and mixtures (CLP).

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out by the supplier.

## SECTION 16. OTHER INFORMATION

**Classification procedure**

Test data is prioritized when classifying the product. When no test data are available the classification criteria in Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP) have been used.

**Hazard statements in Section 3**

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H373 | May cause damage to organs (kidney) through prolonged or repeated exposure. |

**Abbreviations**

| | |
|---|---|
| BCF | Bio Concentration Factor |
| BOD5/COD | Biological Oxygen Demand 5 days/Chemical Oxygen demand |
| BOD (MITI) | Biological Oxygen Demand |
| DNEL | Derived No Effect Level |
| EC50 | Effective Concentration (concentration that gives response in 50% of test subjects) |
| ECHA | European Chemical Agency |
| EmS | Emergency Schedule Information |
| IARC | International Agency for Research on Cancer |
| IC50 | Inhibitory Concentration (concentration that shows inhibition in 50% of the test subjects) |
| LC50 | Lethal Concentration (concentration causing the death of 50% of a group of test animals) |
| LD50 | Lethal Dose (dose causing the death of 50% of a group of test animals) |
| Log Pow | Partition coefficient of octanol - water |
| MITI | Ministry of International Trade and Industry, Japan |
| NOEC | No Observed Effect Concentration |
| NOAEC | No Observed Adverse Effect Concentration |
| NOAEL | No Observed Adverse Effect Level |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bio-accumulative and Toxic substance |
| PNEC | Predicted No Effect Concentration |

| | |
|---|---|
| STEL | Short Term Exposure Limit |
| SVHC | Substance of Very High Concern |
| TWA | Time-weighted average |
| vPvB | very Persistent and very Bioaccumulative |

**Advice on education**

The user of this product should have training that is relevant to the properties of the product and relevant use.

**References**

Information from the supplier: SDS in Swedish, version 1.
Classification & Labelling Inventory Database, ECHA.
Registered substances, ECHA.
Kemiska Ämnen (Chemical Substances) online, Prevent.

**Version description**

The information has been modified under the following sections in the safety data sheet: 1-16

The safety data sheet is dated 10.02.2020 and is the first version.