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**Warning**



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

### 1.1. Product identifier

Identification of the product : Multicomponent liquid.  
Trade name : UNIVERSAL COOLANT -35°C BARDAHL

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

See product bulletin for detailed information.

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

Producer/Manufacturer : SADAPS BARDAHL Additives & Lubricants  
ZI TOURNAI OUEST 2  
RUE DU MONT DES CARLIERS, 3  
7522 TOURNAI Belgique-Belgie  
TEL : +32 (0).69.59.03.60  
FAX : +32 (0).69.59.03.61  
MAIL : bardahl@bardahlfrance.com

### 1.4. Emergency telephone number

+32 (0)70.245.245

## SECTION 2 Hazards identification

### 2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

: Xn; R22

Text of R-Phrases : : SECTION 16

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

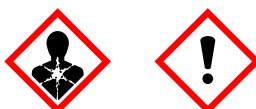
• Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4)  
Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP : STOT RE 2)

Text of H-Phrases : : SECTION 16

### 2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



• Hazard pictograms code : SGH08 - SGH07

• Signal words : Warning

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## SECTION 2 Hazards identification (continued)

- **Hazard statements** : H302 - Harmful if swallowed.  
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).
- **Precautionary statements**
  - **General** : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.
  - **Prevention** : P260 - Do not breathe vapours.  
P270 - Do not eat, drink or smoke when using this product.
  - **Response** : P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
  - **Disposal considerations** : P501 - Dispose of contents/container in accordance with local regulations.
- **Contains** : Ethylene Glycol. Embittering agent.

### 2.3. Other hazards

None under normal conditions.

## SECTION 3 Identification of the substance/mixture and of the company/undertaking

Substance name	Contents	CAS No	EC No	Annex No	REACH	Classification
Ethanediol	: 20 - 50 %	107-21-1	203-473-3	603-027-00-1	01-2119456816-28-XXXX	Xn; R22 ----- Acute Tox. 4 (H302) STOT RE 2 (H373)
Potassium hydroxide	: < 0.5 %	1310-58-3	215-181-3	019-002-00-8	01-2119487136-33-XXXX	Xn; R22 C; R35 ----- Skin Corr. 1A+ (H314) Acute Tox. 4 (H302)

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

#### First aid measures

- **Inhalation** : Assure fresh air breathing.
- **Skin contact** : Wash skin thoroughly with mild soap and water.
- **Eye contact** : Rinse immediately with plenty of water.
- **Ingestion** : If swallowed seek medical advice immediately and show this container or label. DO NOT INDUCE VOMITING.

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

- **Inhalation** : Inhalation of vapours may cause respiratory irritation.
- **Skin contact** : Not expected to be an irritant.
- **Eye contact** : Direct contact with the eyes is likely irritating.
- **Ingestion** : Harmful if swallowed.  
May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).

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

Treat symptomatically. Administer ethanol. (Antidote)

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## SECTION 5. Fire-fighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Powder. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.

### 5.3. Advice for fire-fighters

Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

## SECTION 6. Accidental release measures

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

Personal precautions : Keep public away from danger area. Equip cleanup crew with proper protection.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

#### Clean up methods

- In case of spillage and/or leakage : May be dangerously slippery if spilled.  
Material can make walking hazardous, cause falls and serious injury.
- on soil : Clean up any spills as soon as possible, using an absorbent material to collect it.
  - on water : Take up large spills with pump or vacuum.

### 6.4. Reference to other sections

No data available.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

- General : When using, do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Take off immediately all contaminated clothing.
- Handling : No smoking. Do not breathe gas, fumes, vapour or spray. Wear suitable protective clothing.

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

Storage : Store in dry, cool, well-ventilated area. Keep in original containers.

### 7.3. Specific end use(s)

No data available.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

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## SECTION 8. Exposure controls/personal protection (continued)

**Occupational Exposure Limits** : Ethanediol : VME [ppm] : 20 Skin.  
Ethanediol : VME [mg/m3] : 52 Vapour.  
Ethanediol : VLE [ppm] : 40 Skin.  
Ethanediol : VLE [mg/m3] : 104 Vapour.

### 8.2. Exposure controls

#### Personal protection

- Eye protection : Avoid contact with eyes.
- Skin protection : Wear suitable protective clothing.
- Hand protection : In case of repeated or prolonged contact wear gloves.(EN374)
- Respiratory protection : Where excessive vapour may result, wear approved mask.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state at 20 °C : Liquid.
- Colour : Yellow.
- Odour : Odourless.
- Odour threshold : No data available.
- pH : 7.0 - 8.5
- Melting point / Freezing point : -35°C +/- 2°C
- Initial boiling point - boiling range [ °C] : 107°C +/- 2°C
- Flash point [°C] : > 120
- Evaporation rate : No data available.
- Flammability : No data available.
- Explosion limits (lower - upper) : No data available.  
No data available.
- Vapour pressure : No data available.
- Vapour density : No data available.
- Relative density : 1.060-1.070
- Solubility : In water, material soluble.
- Partition coefficient : n-octanol / water : No data available.
- Auto-ignition temperature : No data available.
- Thermal decomposition : No data available.
- Viscosity : No data available.
- Explosive Properties : No data available.
- Oxidising properties : No data available.

### 9.2. Other information

**Other data** : No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

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#### SECTION 10. Stability and reactivity (continued)

Stable.

##### **10.2. Chemical stability**

Stable.

##### **10.3. Possibility of hazardous reactions**

None under normal conditions.

##### **10.4. Conditions to avoid**

**Conditions to avoid** : Open flame. Sparks. Heat.

##### **10.5. Incompatible materials**

**Materials to avoid** : Strong oxidizers.

##### **10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Hydrocarbon. Carbon monoxide. Carbon dioxide.

#### SECTION 11. Toxicological information

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

Refer to Summary of hazards SECTION 1

#### SECTION 12. Ecological information

##### **12.1. Toxicity**

No data available.

##### **12.2. Persistence - degradability**

No data available.

##### **12.3. Bioaccumulative potential**

No data available.

##### **12.4. Mobility in soil**

No data available.

##### **12.5. Results of PBT and vPvB assessment**

No data available.

##### **12.6. Other adverse effects**

No data available.

#### SECTION 13. Disposal considerations

##### **13.1. Waste treatment methods**

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

#### SECTION 14. Transport information

##### **14.1. UN Number**

Unregulated.

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#### SECTION 14. Transport information (continued)

##### 14.2. Proper shipping name

Unregulated.

##### 14.3. Transport Hazard Classification

Unregulated.

##### 14.4. Packing group

Unregulated.

##### 14.5. Environmental hazards

**In case of spillage and/or leakage** : Clean up even minor leaks or spills if possible without unnecessary risk.

##### 14.6. Special precautions for user

**Emergency action in case of accident** : Stop the engine. No naked lights. No smoking. Mark roads and warns other road users. Keep public away from danger area. NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

##### 14.7. Bulk transport - annex II Marpol 73/78 - IBC

No data available.

#### SECTION 15. Regulatory information

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

Ensure all national/local regulations are observed.

##### 15.2. Chemical Safety Assessment

No data available.

#### SECTION 16. Other information

**Text of H-Phrases :** : H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H373 - May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

**Text of R-Phrases :** : R22 : Harmful if swallowed.  
R35 : Causes severe burns.

**Recommended uses and restrictions** : See product bulletin for detailed information.

**Text of R-Phrases in § 3** : R22 : Harmful if swallowed.  
R35 : Causes severe burns.

**Further information** : Revision - See : \*  
Label : 733 732 VR0 - VR1  
Safety data sheet available for professional user on request.

**Print date** : 6 / 2 / 2015

The contents and format of this SDS are in accordance with Regulation (EC) N° 453/2010 of the European Parliament and of the Council.

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