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3 : Flammable liquid.

Danger



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

1.1. Product identifier

Identification of the product : Miscellaneous fuel additive.
Multicomponent liquid.

Trade name : WATER REMOVER 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

: F; R11
R67
Xi; R36

Text of R-Phrases : : SECTION 16

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

- **Health hazards** : Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2)
Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 -
Warning (CLP : STOT SE 3)
- **Physical hazards** : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2)

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SECTION 2 Hazards identification (continued)

Text of H-Phrases : SECTION 16

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



- Hazard pictograms code : SGH02 - SGH07
- Signal words : Danger
- Hazard statements : H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
- Precautionary statements
 - General : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
 - Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection/face protection.
 - Response : P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
 - Storage : P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
 - Disposal considerations : P501 - Dispose of contents/container in accordance with local regulations.
- Contains : isopropanol;

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
Propan-2-ol	: > 50 %	67-63-0	200-661-7	603-117-00-0	01-2119457558-25-XXXX	F; R11 R67 Xi; R36 ----- Flam. Liq. 2 (H225) Eye irrit 2 (H319) STOT SE 3 (H336)
4-methylpentan-2-ol	: 5 - 15 %	108-11-2	203-551-7	603-008-00-8	01-2119473979-13-XXXX	R10 Xi; R36/37/38 ----- Flam. Liq. 3 (H226) Eye irrit 2 (H319) STOT SE 3 (H335)
Dérivés d'alkyldiamines	: < 2.5 %	40027-38-1	254-754-2	NOT LISTED	----	Xn; R48/22 Xi; R36/38 N; R50-53 ----- Eye irrit 2 (H319) Skin Irrit. 2 (H315) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)

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SECTION 4. First aid measures

4.1. Description of first aid measures

First aid measures

- Inhalation : Assure fresh air breathing. If not breathing, give artificial respiration.
- Skin contact : Wash skin thoroughly with mild soap and water.
- Eye contact : Rinse immediately with plenty of water.
- Ingestion : Seek medical attention if ill effect develops.

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

- Inhalation : May cause drowsiness or dizziness.
- Skin contact : Not expected to be an irritant.
- Eye contact : Causes serious eye irritation.
- Ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

Treat symptomatically.

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

- General precautions : Remove ignition sources.
- 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

- 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

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SECTION 6. Accidental release measures (continued)

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.
- Storage life** : 5 years.

7.3. Specific end use(s)

No data available.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

- Occupational Exposure Limits** : Propan-2-ol : TLV[©] -TWA [mg/m³] : 983
Propan-2-ol : TLV[©] -STEL [mg/m³] : 1230
Propan-2-ol : TLV[©] -TWA [ppm] : 400
Propan-2-ol : MAC [mg/m³] : 980
Propan-2-ol : TLV[©] -STEL [ppm] : 500
Propan-2-ol : VME [ppm] : 250
Propan-2-ol : VME [mg/m³] : 650

8.2. Exposure controls

- Personal protection**
- **Eye protection** : Chemical goggles or safety glasses. (EN166).
 - **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** : Slightly yellow.
- Odour** : Alcohol.
- **Odour threshold** : No data available.
 - **pH** : Not applicable.
 - **Melting point / Freezing point** : No data available.
 - **Initial boiling point - boiling range [°C]** : No data available.

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SECTION 9. Physical and chemical properties (continued)

Final boiling point [°C]	: No data available.
• Flash point [°C]	: 15
• Evaporation rate	: No data available.
• Flammability	: No data available.
• Vapour pressure	: No data available.
• Vapour density	: No data available.
• Relative density	: 0.78 - 79
• 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

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

SECTION 1

Refer to Summary of hazards

SECTION 12. Ecological information

12.1. Toxicity

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SECTION 12. Ecological information (continued)

48 H-LC50 - Daphnia magna [mg/l] : CAS 40027-38-1 = 0.01 - 0.1

IC50 72h Algae [mg/l] : CAS 40027-38-1 = 0.01 - 0.1

LC50-96 Hour - fish [mg/l] : CAS 40027-38-1 = 0.01 - 0.1

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

UN No. : 1993

14.2. Proper shipping name

UN1993 FLAMMABLE LIQUID, N.O.S. (Propan-2-ol), 3, II, (D/E)

14.3. Transport Hazard Classification

19 - Labelling ADR



: 3 : Flammable liquid.

ADR/RID

: Group : II
Special provision : 640D
Class : 3

H.I. nr

: 33

- Proper shipping name

: UN1993 FLAMMABLE LIQUID, N.O.S. (Propan-2-ol), 3, II, (D/E)

Land transport

- ADR Class

: 3

- ADR Packing group

: II
D

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SECTION 14. Transport information (continued)

Emergency action in case of accident : No naked lights. No smoking.
Keep public away from danger area.
NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

Sea transport

- IMO-IMDG code : Class 3
IMO Packing group : II
- IMDG-Marine pollution : NO
- EMS-Nr : F-E S-E

Air transport

- ICAO/IATA : Packaging instructions cargo : 307
Packaging instructions passenger: 305
- Proper shipping name : FLAMMABLE LIQUID, N.O.S. (Propan-2-ol)
- IATA - Class or division : 3

14.4. Packing group

II

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

Personal precautions : The driver shall not attempt to deal with any fire of the load.

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.

Further information

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.

: RG 49 Table : Skin disorders caused by aliphatic amines, alicyclic or ethanolamines. (FRANCE)

Other

15.2. Chemical Safety Assessment

No data available.

SECTION 16. Other information

Text of H-Phrases : H225 - Highly flammable liquid and vapour.
H226 - Flammable liquid and vapour.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.

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SECTION 16. Other information (continued)

Text of R-Phrases :

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>.
H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Recommended uses and restrictions : R10 : Flammable.
R11 : Highly flammable.
R36 : Irritating to eyes.
R36/37/38 : Irritating to eyes, respiratory system and skin.
R36/38 : Irritating to eyes and skin.
R48/22 : Harmful : danger of serious damage to health by prolonged exposure if swallowed.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 : Vapours may cause drowsiness and dizziness.

Further information : See product bulletin for detailed information.
Revision - See : *
Label : 732 108P R0
Safety data sheet available for professional user on request.

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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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