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2.1 : flammable gas.

Danger



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

1.1. Product identifier

Identification of the product : Aerosols dispensers.

Trade name : PENETRATING OIL

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 CORPORATION
 BP 50050 MOUVAUX
 59589 BONDUES Cedex France
 TEL : +33 (0)3 10 38 38 38
 FAX : +33 (0)3 51 08 90 51
 MAIL : industrie@bardahlfrance.com

Distributor : SADAPS BARDAHL CORPORATION
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1.4. Emergency telephone number

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+33 (0)1.45.42.59.59

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

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

- **Supplemental hazard information** : EUH066 - Repeated exposure may cause skin dryness or cracking.
- **Physical hazards** : Flammable aerosols - Category 1 - Danger (CLP : Flam. Aerosol 1)

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SECTION 2 Hazards identification (continued)

• **Environmental hazards** : Hazardous to the aquatic environment - Chronic hazard - Category 3 (CLP : Aquatic Chronic 3)

Text of H-Phrases : : SECTION 16

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• **Hazard pictograms**



- **Hazard pictograms code** : SGH02
- **Signal words** : Danger
- **Hazard statements** : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H412 - Harmful to aquatic life with long lasting effects.
- **Supplemental hazard information** : EUH066 - Repeated exposure may cause skin dryness or cracking.
- **Precautionary statements**
 - **General** : P102 - Keep out of reach of children.
 - **Prevention** : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P260 - Do not breathe gas/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
 - **Response** : P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 - **Storage** : P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122oF.
 - **Disposal considerations** : P501 - Dispose of contents/container in accordance with local regulations.
- **Contains** : Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl . May produce an allergic reaction.
- **Other** : Restricted to professional users.

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
Butane	: 25 - 50 %	106-97-8	203-448-7	601-004-00-0	01-2119474691-32-XXXX	F+; R12 ----- Flam. Gas 1 (H220)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	: > 20 %	64742-48-9	918-481-9	----	01-2119457273-39-XXXX	Xn; R65 R66 ----- Asp. Tox 1 (H304) (EUH066)
oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine	: < 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 3 Identification of the substance/mixture and of the company/undertaking (continued)

Substance name	Contents	CAS No	EC No	Annex No	REACH	Classification
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl.	< 1 %	-----	931-384-6	-	01-2119493620-38-XXXX	Xn; R22 Xi; R41 R43 N; R51-53 ----- Eye Dam 1 (H318) Acute Tox. 4 (H302) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)

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 : Not expected to be a primary route of exposure.

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

- Inhalation : Inhalation of vapours may cause respiratory irritation.
- Skin contact : Repeated exposure may cause skin dryness or cracking.
- Eye contact : Direct contact with the eyes is likely irritating.
- Ingestion : Ingestion unlikely.

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.

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SECTION 6. Accidental release measures (continued)

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

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

: 3 years.

7.3. Specific end use(s)

No data available.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

: Butane : TLV[©] -TWA [ppm] : (MAK) 1000
 Butane : TLV[©] -TWA [ppm] : (ACGIH) 1000
 Butane : VME [ppm] : (France) 800
 Butane : VME [mg/m³] : (France) 1900
 Butane : VME [mg/m³] : (Allemagne) 4(II) DFG 2400
 Butane : VME [mL/m³] : (Allemagne) 4(II) DFG 1000
 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : VME [mg/m³] : 1200
 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics : VME [ppm] : 184
 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl . : Rat oral LD50 [mg/kg] : 2000
 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl . : 48 H-LC50 - Daphnia magna [mg/l] : 91.4

8.2. Exposure controls


Personal protection

- Eye protection : Avoid contact with eyes.
- Skin protection : Wear suitable protective clothing.

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SECTION 8. Exposure controls/personal protection (continued)

- 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 : Characteristic.
- Odour : Hydrocarbon.
- Odour threshold : No data available.
- pH : Not applicable.
- Melting point / Freezing point : No data available.
- Initial boiling point - boiling range [°C] :
No data available.
No data available.
- Flash point [°C] : <0
- 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 : 0.86 - 0.87
- Solubility : Material insoluble in water.
- Partition coefficient : n-octanol / water : No data available.
- Auto-ignition temperature : > 230
- Thermal decomposition : No data available.
- Viscosity : 10 mm²/s(40°C)
- 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

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SECTION 10. Stability and reactivity (continued)

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

Acute toxicity

- **Dermal** : The substance (931-384-6) has been tested and does not cause sensitization by skin contact (H317) for a content below 9.39% (m / m).

SECTION 12. Ecological information

12.1. Toxicity

48 H-CE50 - Daphnia magna [mg/l] : CAS 40027-38-1 = 1.4

LC50-96 Hour - fish [mg/l] : CAS 40027-38-1 = 1.34

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. : 1950

14.2. Proper shipping name

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SECTION 14. Transport information (continued)

UN1950 AEROSOLS, flammable (Butane), 2.1, 5F, (D)

14.3. Transport Hazard Classification

19 - Labelling ADR



: 2.1 : flammable gas.
ADR/RID : Class : 2
 Group : F
H.I. nr : --
- Proper shipping name : UN1950 AEROSOLS, flammable (Butane), 2.1, 5F, (D)
Land transport
- ADR Class : 2
- ADR Packing group : F
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 2.1
IMO Packing group : -
- IMDG-Marine pollution : No.
- EMS-Nr : F-D S-U
Air transport
- ICAO/IATA : Packaging instructions cargo : 203
 Packaging instructions passenger: 203
- Proper shipping name : AEROSOLS, flammable
- IATA - Class or division : 2

14.4. Packing group

F

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 : No naked lights. No smoking.
 Stop the engine. 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.

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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)
- Table RG 36: Diseases caused by oils and fats mineral or synthetic. (FRANCE)
- Table RG 84: Diseases caused by organic solvents liquid for professional use. (FRANCE)

15.2. Chemical Safety Assessment

No data available.

SECTION 16. Other information

- Text of H-Phrases :**
- : EUH066 - Repeated exposure may cause skin dryness or cracking.
 - H220 - Extremely flammable gas.
 - H302 - Harmful if swallowed.
 - H304 - May be fatal if swallowed and enters airways.
 - H315 - Causes skin irritation.
 - H317 - May cause an allergic skin reaction.
 - H318 - Causes serious eye damage.
 - H319 - Causes serious eye irritation.
 - 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.
- Text of R-Phrases :**
- : R12 : Extremely flammable.
 - R22 : Harmful if swallowed.
 - R36/38 : Irritating to eyes and skin.
 - R41 : Risk of serious damage to eyes.
 - R43 : May cause sensitization by skin contact.
 - 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.
 - R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R65 : Harmful : may cause lung damage if swallowed.
 - R66 : Repeated exposure may cause skin dryness or cracking.
- Recommended uses and restrictions :** See product bulletin for detailed information.
- Further information :** Label : 1122R11
Safety data sheet available for professional user on request.
- Print date :** 16 / 6 / 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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