



SAFETY DATA SHEET

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TYRE SEALANT MICHELIN



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 : TYRE SEALANT MICHELIN

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 : msds@bardahlfrance.com

1.4. Emergency telephone number

+32 (0)70.245.245

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

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

• Physical hazards : Pressurised container: May burst if heated.
Flammable aerosols - Category 1 - Danger (CLP : Flam. Aerosol 1)
Text of H-Phrases : : SECTION 16

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



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SECTION 2 Hazards identification (continued)

- Hazard pictograms code : SGH02
- Signal words : Danger
- Hazard statements : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
- Precautionary statements
 - General : P102 - Keep out of reach of children.
 - Prevention : P271 - Use only outdoors or in a well-ventilated area.
P260 - Do not breathe spray.
P251 - Do not pierce or burn, even after use.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Response : P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 - Storage : P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
 - Disposal considerations : P501 - Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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
Isobutane	: < 55 %	75-28-5	200-857-2	601-004-00-0	01-2119485395-27-XXXX	F+; R12 Flam. Gas 1 (H220) Press. Gas (H280)
Butane	: < 55 %	106-97-8	203-448-7	601-004-00-0	01-2119474691-32-XXXX	F+; R12 Flam. Gas 1 (H220) Press. Gas (H280)
Propane	: 5 - 15 %	74-98-6	200-827-9	601-003-00-5	01-2119486944-21-XXXX	F+; R12 Flam. Gas 1 (H220) Press. Gas (H280)
Ethanediol	: < 10 %	107-21-1	203-473-3	603-027-00-1	01-2119456816-28-XXXX	Xn; R22 Acute Tox. 4 (H302) STOT RE 2 (H373)

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. Seek medical attention immediately.
- Ingestion : Give water to drink. Seek medical attention immediately.

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

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SECTION 4. First aid measures (continued)

- 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 : 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. Alcohol resistant foam.
- 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

- 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.



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SECTION 7. Handling and storage (continued)

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 : Isobutane : TLV[©] -TWA [ppm] : 1000
Isobutane : VME [mg/m³] : 2400
Isobutane : VME [mL/m³] : 1000
Propane : TLV[©] -TWA [ppm] : (ACGIH) 1000
Propane : TLV[©] -TWA [ppm] : (MAK) 1000
Propane : TLV[©] -STEL [ppm] : (MAK) 4000
Propane : VME [mg/m³] : (allemagne) 4(II) DFG 1800
Propane : VME [mL/m³] : (allemagne) 4(II) DFG 1000
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
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 : No data available.
Colour : Characteristic.
Odour : Characteristic.
• Odour threshold : No data available.
• pH : 8.5 - 9.5
• Melting point / Freezing point : No data available.
• Initial boiling point - boiling range [°C] : No data available.
• Flash point [°C] : < 0
• Evaporation rate : No data available.
• Flammability : No data available.



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SECTION 9. Physical and chemical properties (continued)

- **Explosion limits (lower - upper)** : No data available.
No data available.
 - **Vapour pressure** : No data available.
 - **Vapour density** : No data available.
 - **Relative density** : 0.679 g/cm³
 - **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

Refer to Summary of hazards SECTION 1

Acute toxicity

- Dermal : • Ethanediol : Rabbit dermal LD50 [mg/kg] : 1953**- Ingestion** : • Ethanediol : Rat oral LD50 [mg/kg] : 8540

SECTION 12. Ecological information

12.1. Toxicity

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SECTION 12. Ecological information (continued)

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

UN No. : 1950

14.2. Proper shipping name

UN1950 AÉROSOLS, inflammables, 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 AÉROSOLS, inflammables, 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



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SECTION 14. Transport information (continued)

- 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 : 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.

: 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 :
: H220 - Extremely flammable gas.
H280 - Contains gas under pressure; may explode if heated.
H302 - Harmful if swallowed.
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 :
: R12 : Extremely flammable.
R22 : Harmful if swallowed.
- Recommended uses and restrictions : See product bulletin for detailed information.
- Further information : Label : 12190
Revision - See : *
Safety data sheet available for professional user on request.

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SECTION 16. Other information (continued)

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