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BRAKE & PARTS CLEANER

4451E



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 : BRAKE & PARTS CLEANER

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 BARD AHL 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)

- Health hazards : Skin irritation - Category 2 - Warning
Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 -
Warning (CLP : STOT SE 3)
 - Physical hazards : Flammable aerosols - Category 1 - Danger (CLP : Flam. Aerosol 1)
Pressurised container: May burst if heated.
 - Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP :
Aquatic Chronic 2)
- Text of H-Phrases : : SECTION 16

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

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SECTION 2 Hazards identification (continued)

• Hazard pictograms**• Hazard pictograms code**

: SGH02 - SGH07 - SGH09

• Signal words

: Danger

• Hazard statements

: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

• 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.
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.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves.

- Response

: P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P391 - Collect spillage.

- Storage

: P405 - Store locked up.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

- Disposal considerations

: P501 - Dispose of contents/container in accordance with local regulations.

• Contains

: Hydrocarbons, C6, isoalkanes, <5% n-hexane. Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics ; 30 % and more aliphatic hydrocarbons .

• Other

: Use as per instructions and specifically for this purpose.

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
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	: 25 - 50 %	----	927-510-4	----	01-2119475515-33-XXXX	F; R11 Xn; R65 R67 Xi; R38 N; R51-53 ----- Flam. Liq. 2 (H225) Asp. Tox 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Aquatic Chronic 2 (H411)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane	: 25 - 50 %	----	931-254-9	----	----	F; R11 Xn; R65 R67 Xi; R38 N; R51-53 ----- Flam. Liq. 2 (H225) Asp. Tox 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) 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
Propan-2-ol	: 2.5 - 10 %	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)
Carbon dioxide	: 2.5 - 10 %	124-38-9	204-696-9	----	----	Not classified (DSD/DPD) ----- Not classified (GHS)
n-Hexane	: < 3 %	110-54-3	203-777-6	601-037-00-0	----	F; R11 Repr. Cat. 3; R62 Xn; R65-48/20 R67 Xi; R38 N; R51-53 ----- Flam. Liq. 2 (H225) Asp. Tox 1 (H304) Repr. 2 (H361F) Skin Irrit. 2 (H315) STOT RE 2 (H373) STOT SE 3 (H336) Aquatic Chronic 2 (H411)

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 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : Not expected to be a primary route of exposure.

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

- Inhalation : May cause drowsiness or dizziness.
- Skin contact : Causes skin irritation.
- Eye contact : Not expected to be an irritant to eyes.
- 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.

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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

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 : Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics : VME [mg/m³] : 1600
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics : VME [ppm] : 395
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
Carbon dioxide : TLV[©] -TWA [mg/m³] : 9000
Carbon dioxide : TLV[©] -TWA [ppm] : 5000
Carbon dioxide : TLV[©] -STEL [mg/m³] : 54000
Carbon dioxide : TLV[©] -STEL [ppm] : 30000
n-Hexane : TLV[©] -TWA [mg/m³] : 176
n-Hexane : TLV[©] -TWA [ppm] : 50
n-Hexane : MAC [mg/m³] : 90



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SECTION 8. Exposure controls/personal protection (continued)

n-Hexane : VME [ppm] : (France) 72
n-Hexane : VME [mg/m³] : (France) 20

8.2. Exposure controls

Personal protection

- Eye protection : Eye protection should only be necessary where liquid could be splashed or sprayed.(EN166).
- Skin protection : Wear suitable protective clothing.
- Hand protection : Wear suitable gloves resistant to chemical penetration. (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 : Characteristic.
- Odour threshold : No data available.
- pH : Not applicable.
- Melting point / Freezing point : No data available.
- Boiling point [°C] : 260
- Flash point [°C] : < -20°C
- Evaporation rate : 8 (n-BuAc = 1)
- Flammability : No data available.
- Explosion limits (lower - upper) : 1.1-12
- Vapour pressure : No data available.
- Vapour pressure, 20°C : 19000 Pa
- Vapour density : No data available.
- Relative density : 0.780
- Solubility : Material insoluble in water.
- Partition coefficient : n-octanol / water : No data available.
- Auto-ignition temperature : 370
- Thermal decomposition : No data available.
- Viscosity : 1.0 mm²/s(20°C)
- Explosive Properties : No data available.
- Oxidising properties : No data available.

9.2. Other information

- Other data : COV 62.8% - 560g/l

SECTION 10. Stability and reactivity

10.1. Reactivity

Stable.

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SECTION 10. Stability and reactivity (continued)

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

Acute toxicity

- Inhalation

- Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics : Rat inhalation LC50 [mg/l/4h] : 23.3
- Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics : Rat inhalation CL50 [mg/m3] : > 23300
- Hydrocarbons, C6, isoalkanes, <5% n-hexane : Rat inhalation CL50 [mg/m3] : 259354

- Dermal

- Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics : Rat dermal LD50 [mg/kg] : > 2920
- Hydrocarbons, C6, isoalkanes, <5% n-hexane : Rat dermal LD50 [mg/kg] : > 3350
- Propan-2-ol : Rabbit dermal LD50 [mg/kg] : 13000

- Ingestion

- Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics : Rat oral LD50 [mg/kg] : > 5840
- Hydrocarbons, C6, isoalkanes, <5% n-hexane : Rat oral LD50 [mg/kg] : > 16750
- Propan-2-ol : Rat oral LD50 [mg/kg] : 5045

SECTION 12. Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

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

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SECTION 12. Ecological information (continued)

No data available.

12.6. Other adverse effects

No data available.

WGK class (Germany) : 1

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 AEROSOLS, flammable, 2.1 (9E), 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, 2.1 (9E), 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 : Yes
- EMS-Nr : F-D S-U
Air transport
- ICAO/IATA : Packaging instructions cargo : 203
Packaging instructions passenger: 203
- Proper shipping name : AEROSOLS, flammable



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SECTION 14. Transport information (continued)

- 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. Mark roads and warns other road users.
Stop the engine. 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.

15.2. Chemical Safety Assessment

No data available.

SECTION 16. Other information

Text of H-Phrases :

- : H225 - Highly flammable liquid and vapour.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- H361F - Suspected of damaging fertility.
- 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>.
- H411 - Toxic to aquatic life with long lasting effects.

Text of R-Phrases :

- : R11 : Highly flammable.
- R36 : Irritating to eyes.
- R38 : Irritating to skin.
- R48/20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.
- R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R62 : Possible risk of impaired fertility.
- R65 : Harmful : may cause lung damage if swallowed.
- R67 : Vapours may cause drowsiness and dizziness.

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

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SECTION 16. Other information (continued)

Further information : Revision - See : *
Label : 4451E R2
Safety data sheet available for professional user on request.

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