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Xi : Irritant



F+ : Extremely flammable



N : Dangerous for the environment



2.1 : flammable gas.

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

1.1. Product identifier

Identification of the product : Aerosols dispensers.
Trade name : ELECTRICAL CONTACT CLEANER
 NCE 3

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
 104, rue de Lille
 59420 MOUVAUX 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
 104, rue de Lille
 59420 MOUVAUX France
 TEL : +33 (0)3 10 38 38 38
 FAX : +33 (0)3 51 08 90 51
 MAIL : industrie@bardahlfrance.com

1.4. Emergency telephone number

+33 (0)1.45.42.59.59
 +33 (0)1.45.42.59.59

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

: F+; R12
 R67
 Xi; R38
 N; R51/53

Text of R-Phrases :

: SECTION 16

Environmental hazard


: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

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SECTION 2 Hazards identification (continued)

Labelling EC 67/548 or EC 1999/45

• Symbol(s)



: Xi : Irritant
F+ : Extremely flammable
N : Dangerous for the environment

• R Phrase(s)

: R12 : Extremely flammable.
R38 : Irritating to skin.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 : Vapours may cause drowsiness and dizziness.

• S Phrase(s)

: S2 : Keep out of the reach of children.
S23 : Do not breathe the gas, fumes, vapours, spray.
S29 : Do not empty into drains.
S46 : If swallowed seek medical advice immediately and show this container or label.
S51 : Use only in well-ventilated areas.
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

• Contains

: aliphatic hydrocarbons 30 % and more

• Other

: Pressurized can. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or bum, even after use. Do not spray on a flame or incandescent material. During use and afterwards, keep away from any flame, source of heat and working electric appliance. Keep away from source of ignition. Do not smoke. Proceed by short pressures without long spraying. After use, ventilate well. 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
Hydrocarbon-solvents (Aliphatic) :	> 50 %	64742-49-0	265-151-9	649-328-00-1	01-2119475515-33-XXXX	F; R11 Xn; R65 R67 Xi; R38 N; R51-53 ----- Not classified (GHS)
Butane :	25 - 50 %	106-97-8	203-448-7	601-004-00-0	01-2119474691-32-XXXX	F+; R12 ----- Flam. Gas 1 (H220)
Propane :	2.5 - 10 %	74-98-6	200-827-9	601-003-00-5	01-2119486944-21-XXXX	F+; R12 ----- Flam. Gas 1 (H220) Press. Gas (H280)
n-Hexane :	< 2.5 %	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)

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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 : Not expected to be a primary route of exposure. DO NOT INDUCE VOMITING.
Seek medical advice.

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

- Inhalation : Vapours may cause drowsiness and dizziness.
- Skin contact : Irritating to skin.
- 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. Powder.
- 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** : 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
 - 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
 - n-Hexane : TLV[©] -TWA [mg/m³] : 176
 - n-Hexane : TLV[©] -TWA [ppm] : 50
 - n-Hexane : MAC [mg/m³] : 90
 - 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** : In case of repeated or prolonged contact wear gloves.(EN374)
- **Respiratory protection** : Where excessive vapour may result, wear approved mask.

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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Colourless.
Odour	: Ethereal.
• Odour threshold	: No data available.
• pH	: Not applicable.
• Melting point / Freezing point	: No data available.
• Initial boiling point - boiling range [°C]	: < 35 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	: 0.670
• Solubility	: Material insoluble in water.
• Partition coefficient : n-octanol / water	: No data available.
• Auto-ignition temperature	: 200
• 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.



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SECTION 11. Toxicological information

11.1. Information on toxicological effects

SECTION 1

Refer to Summary of hazards

Acute toxicity

- Inhalation : This material or its emissions may affect the nervous system.
- Dermal : R66 : Repeated exposure may cause skin dryness or cracking. DL 50 > 2000 mg/kg
- Ingestion : Risk of lungs oedema. DL 50 > 2000 mg/kg

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

UN No. : 1950

14.2. Proper shipping name

UN1950 AÉROSOLS (Propane, Butane), 2.1, 5F

14.3. Transport Hazard Classification

19 - Labelling ADR



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SECTION 14. Transport information (continued)

ADR/RID : 2.1 : flammable gas.
: Class : 2
: Group : F

H.I. nr : --

- Proper shipping name : UN1950 AÉROSOLS (Propane, Butane), 2.1, 5F

Land transport

- ADR Class : 2
- ADR Packing group : F

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.

Sea transport

- IMO-IMDG code : Class 2
IMO Packing group : F
- IMDG-Marine pollution : - 0
- 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
IATA Packing group : F

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.

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 59 Table : Occupational poisoning with hexane. (FRANCE)
Table RG 84: Diseases caused by organic solvents liquid for professional use. (FRANCE)

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SECTION 15. Regulatory information (continued)

15.2. Chemical Safety Assessment

No data available.

SECTION 16. Other information

Text of H-Phrases :	: H220 - Extremely flammable gas. H225 - Highly flammable liquid and vapour. H280 - Contains gas under pressure; may explode if heated. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin 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. R12 : Extremely flammable. 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.
Text of R-Phrases in § 3	: R11 : Highly flammable. R12 : Extremely flammable. 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.
Further information	: Label : 1892 MAJ0909 Revision - See : * Safety data sheet available for professional user on request.
Print date	: 9 / 1 / 2015

The contents and format of this SDS are in accordance with Regulation (EC) No 453/2010 of the European Parliament and of the Council.

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