



N : Dangerous for the environment



F+ : Extremely flammable



Xi : Irritant

Producer

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1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : ISONET
Identification of the product : Aerosol.
Type of product : Cleaner for magnetic heads.
Company identification : See producer.
* Emergency phone nr : INRS : 01.45.42.59.59

2 HAZARDS IDENTIFICATION

Risk Phrases : Extremely flammable. In use, may form flammable/explosive vapour-air mixture.
Primary route of exposure : Inhalation.
Symptoms relating to use
- Inhalation : Shortness of breath. Drowsiness. Headache.
- Skin contact : Irritating to skin. May cause skin to become dry or cracked.
- Eye contact : Eye irritant upon direct contact. Redness. Pain.
- Ingestion : Ingestion unlikely.

3 COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered to be hazardous and contains hazardous components.

| Substance name | Contents (%) | CAS No / EC No / Index No | Symbol(s) | R-Phrase(s) |
|--|--------------|-------------------------------------|-----------|-------------------|
| <u>Butane</u> | : 20 to 40 % | 106-97-8 / 203-448-7 / 601-004-00-0 | F+ | 12 |
| <u>Propane</u> | : 10 to 30 % | 74-98-6 / 200-827-9 / 601-003-00-5 | F+ | 12 |
| <u>Ethanol</u> | : 10 to 20 % | 64-17-5 / 200-578-6 / 603-002-00-5 | F | 11 |
| <u>Hexane, mixture of isomers (containing < 5 % n-hexane (203-777-6))</u> | : 40 to 60 % | ----- / ----- / 601-007-00-7 | F Xn N | 11-38-51/53-65-67 |

4 FIRST AID MEASURES

First aid measures
- Inhalation : If overcome by exposure, remove victim to fresh air immediately. Allow the victim to rest. Seek medical advice.
- Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water.
- Eye contact : Rinse immediately with plenty of water. Seek medical attention if ill effect or irritation develops.
- Ingestion : Ingestion unlikely. Rinse mouth. Seek medical attention immediately.



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5 FIRE-FIGHTING MEASURES

- Specific hazards : Vapour mixes readily with air, forming explosive mixtures. When exposed to heat or if contaminated by certain impurities, may decompose to generate highly volatile gases which may over pressure and violently rupture closed containers.
- Extinguishing media
- Suitable extinguishing media : Powder. Carbon dioxide. Foam. Water fog.
 - Unsuitable extinguishing media : Do not use a heavy water stream.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Use water spray or fog for cooling exposed containers.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions : Equip cleanup crew with proper protection.
- Environmental precautions : Notify authorities if product enters sewers or public waters.
- Clean up methods : Remove ignition sources. Clean up any spills as soon as possible, using an absorbent material to collect it. Dilute residues and flush. On land, sweep or shovel into suitable containers. Waste mixtures containing propane/butane may not enter into drains or sewers where vapours could accumulate and ignite.

7 HANDLING AND STORAGE

- Precautions in handling and storage : Keep away from sources of ignition - No Smoking.
- Storage : Protect from freezing. Keep at temperature not exceeding 50° C. Store in dry, cool, well-ventilated area. Use special care to avoid static electric charges. No smoking.
- Storage - away from : Direct sunlight. Heat sources. Sparks. Open flame.
- Handling : Handle in accordance with good industrial hygiene and safety procedures. Keep away from food, drink and animal feeding stuffs.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protection
- Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
 - Hand protection : Gloves.
 - Skin protection : Wear suitable protective clothing.
 - Eye protection : Eye protection should only be necessary where liquid could be splashed or sprayed.
- Industrial hygiene : Provide adequate ventilation to minimize dust and/or vapour concentrations. When using, do not eat, drink or smoke.
- * Occupational Exposure Limits : Hexane, mixture of isomers (containing < 5 % n-hexane (203-777-6)) : VME (ppm) : 500
Hexane, mixture of isomers (containing < 5 % n-hexane (203-777-6)) : VME (mg/m³) : 1800
Butane : VME (ppm) : 800
Butane : VME (mg/m³) : 1900
Ethanol : VME (ppm) : 1000
Ethanol : VME (mg/m³) : 1900
Ethanol : VLE (ppm) : 5000
Ethanol : VLE (mg/m³) : 9500

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid.
- Colour : Colourless.
- Odour : Solvent.
- Boiling point [°C] : < 0°C
- Density : 0.63



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9 PHYSICAL AND CHEMICAL PROPERTIES (continued)

Solubility in : Solvent.
Flash point [°C] : < 0°C

10 STABILITY AND REACTIVITY

Hazardous decomposition products : None under normal conditions. Thermal decomposition generates : Carbon dioxide. Carbon monoxide.
Hazardous reactions : In use, may form flammable/explosive vapour-air mixture.
Materials to avoid : Strong acids. Strong bases. Strong oxidizers.
Conditions to avoid : Heat. Direct sunlight. Open flame. Sparks.

11 TOXICOLOGICAL INFORMATION

Toxicity information : No data available.
Acute toxicity : No data available.
Chronic toxicity
- Inhalation : Inhalation of vapours may cause respiratory irritation. Vapours may cause drowsiness and dizziness. Headache. Giddiness.
- Dermal : Irritating to skin.
- Ocular : Direct contact with the eyes is likely irritating. Burning sensation.
- Ingestion : Ingestion may cause nausea, vomiting and diarrhea.

12 ECOLOGICAL INFORMATION

On product : No data available.
Ecological effects information : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13 DISPOSAL CONSIDERATIONS

General : Container under pressure. Do not drill or burn even after use. When not empty dispose of this container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations. Do not empty into drains.

14 TRANSPORT INFORMATION

Shipping name : UN1950 AÉROSOLS, 2.1, 5F
UN No. : 1950
Land transport
ADR/RID : Group : 5F
Class : 2
Sea transport
- IMO-IMDG code : Class 2.1
- EMS-Nr : 2-13
- IMDG-Marine pollution : No.
Air transport
- IATA - Class or division : Class 2.1
- IATA-Label : Flamm. Gas

15 REGULATORY INFORMATION

- Symbol(s)



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

- R Phrase(s)

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

- S Phrase(s)

: S2 : Keep out of the reach of children.
S16 : Keep away from sources of ignition - No smoking.
S23 : Do not breathe 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.

Safety advises

: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Use this aerosol only for the applications for which it is intended.

France

: Tableaux des maladies professionnelles prévus à l'article R, 461-3 du code du travail.
Tableau n°84 - Affections engendrées par les solvants organiques liquides à usage professionnel.

16 OTHER INFORMATION

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

Text of R-Phrases in § 2

: R11 : Highly flammable.
R12 : Extremely flammable.
R38 : Irritating to skin.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 : Harmful : may cause lung damage if swallowed.
R67 : Vapours may cause drowsiness and dizziness.

Further information

: Revision - See : *

The contents and format of this SDS are in accordance with EEC Commission Directive 2004/73EC.

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