# Safety Data Sheet
# BELNET AEROSOL

**Safety Data Sheet dated 12/2/2019, version 7**
**This version cancels and substitutes any previous version**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Mixture identification:
Trade name: BELNET AEROSOL
1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Flushing fluid for A/C systems
1.3. Details of the supplier of the safety data sheet
Company:
ERRECOM SRL
Via Industriale, 14
Corzano (BS) Italy
Tel. +39 030/9719096
Competent person responsible for the safety data sheet:
lab@errecom.it
1.4. Emergency telephone number
+39 02-6610-1029 Poison Control Center Niguarda Ca' Granda - Milano - ITALY
1.5 Details of the Australian Importer
Broadtech Supplies and Services Pty Ltd Trading as Cool Tools Australia
9 meadow Avenue
Hawthorndene
South Australia 5051
Tel 08 8278 9694 Fax 08 8278 5312
Email sales@cool-tools.com.au
Web www.cool-tools.com.au
1.6 Australian Emergency Telephone Contact Number
0406 044 632

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)


Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.


Warning, Skin Irrit. 2, Causes skin irritation.


Warning, Eye Irrit. 2, Causes serious eye irritation.


Warning, STOT SE 3, May cause drowsiness or dizziness.


Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:
No other hazards
2.2. Label elements
Hazard pictograms:

Danger

Hazard statements:

H222+H229 Extremely flammable aerosol. Pressurized container: may burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

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.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Special Provisions:

None

Contains

2-methylpentane

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Number | | Classification |
|---|---|---|---|---|
| >= 60% - < 70% | 2-methylpentane | Index number:<br>CAS:<br>EC: | 601-007-00-7<br>107-83-5<br>203-523-4 | 2.6/2 Flam. Liq. 2 H225<br>3.10/1 Asp. Tox. 1 H304<br>3.2/2 Skin Irrit. 2 H315<br>4.1/C2 Aquatic Chronic 2 H411<br>3.8/3 STOT SE 3 H336 |
| >= 15% - < 20% | propane | Index number:<br>CAS:<br>EC: | 601-003-00-5<br>74-98-6<br>200-827-9 | 2.2/1 Flam. Gas 1 H220<br>2.5 Press. Gas H280 |
| >= 5% - < 7% | butane | Index number: | 601-004-00-0 | 2.2/1 Flam. Gas 1 H220 |

| | | | | |
|---|---|---|---|---|
| | | CAS:<br>EC: | 106-97-8<br>203-448-7 | 2.5 Press. Gas H280 |
| >= 2.5%<br>- < 5% | isobutane | Index number:<br>CAS:<br>EC: | 601-004-00-0<br><br>75-28-5<br>200-857-2 | 2.2/1 Flam. Gas 1 H220<br>2.5 Press. Gas H280 |

## SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
Wash thoroughly the body (shower or bath).
After contact with skin, wash immediately with soap and plenty of water.
Wash contaminated clothing before using them.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
No information available.

## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
CO2 or Dry chemical fire extinguisher.
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove all sources of ignition.

Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

## SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool and well ventilated place.
Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
Store containers away from any incompatible materials, checking section 10.
Instructions as regards storage premises:
Cool and adequately ventilated.

7.3. Specific end use(s)

Information not available.

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-methylpentane - CAS: 107-83-5
ACGIH - TWA(8h): 500 ppm - STEL: 1000 ppm - Notes: CNS impair, URT and eye irr
propane - CAS: 74-98-6
ACGIH - Notes: (D, EX) - Asphyxia
butane - CAS: 106-97-8
ACGIH - STEL: 1000 ppm - Notes: (EX) - CNS impair
isobutane - CAS: 75-28-5
ACGIH - STEL: 1000 ppm - Notes: (EX) - CNS impair

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Use close safety visors, don't use eye lens.

Protection for skin:

Full protection suit.

Protection for hands:

work gloves resistant to penetration (ref. standard EN 374).
Suitable material:
NBR (nitrile rubber).

Material thickness: 0.7 mm minimum.
Break through time : > 480 min
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Respiratory protection:
Mask with filter "A", brown colour

Thermal Hazards:
None

Environmental exposure controls:
None

Appropriate engineering controls:
None

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Appearance and colour: | liquid colorless |
| Odour: | characteristic |
| Odour threshold: | N.A. |
| pH: | N.A. |
| Melting point / freezing point: | N.A. |
| Initial boiling point and boiling range: | N.A. |
| Solid/gas flammability: | N.A. |
| Upper/lower flammability or explosive limits: | N.A. |
| Vapour density: | N.A. |
| Flash point: | <0 ° C |
| Evaporation rate: | N.A. |
| Vapour pressure: | N.A. |
| Relative density: | 0.7 g/mL (+20°C/+68°F) |
| Solubility in water: | insoluble |
| Solubility in oil: | total |
| Partition coefficient (n-octanol/water): | N.A. |
| Auto-ignition temperature: | N.A. |
| Decomposition temperature: | N.A. |
| Viscosity: | N.A. |
| Explosive properties: | N.A. |
| Oxidizing properties: | N.A. |

9.2. Other information

| | |
|---|---|
| Miscibility: | N.A. |
| Fat Solubility: | N.A. |
| Conductivity: | N.A. |
| Substance Groups relevant properties | N.A. |
| V.O.C. (w/w): | 98,0 % |

## SECTION 10: Stability and reactivity

10.1. Reactivity
It may generate dangerous reactions (See subsections below)

10.2. Chemical stability
It may generate dangerous reactions (See subsections below)

10.3. Possibility of hazardous reactions
It can catch fire on contact with oxidising mineral acids.

10.4. Conditions to avoid
Avoid overheating, electrostatic discharge and all sources of ignition.

10.5. Incompatible materials
Strong oxidizing agents, oxidising, halogens, chlorine, fluorine and acetylene.

10.6. Hazardous decomposition products
May include, and are not limited to: oxides of carbon.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological information of the product:
BELNET AEROSOL
a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
b) skin corrosion/irritation
The product is classified: Skin Irrit. 2 H315
c) serious eye damage/irritation
The product is classified: Eye Irrit. 2 H319
d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
h) STOT-single exposure
The product is classified: STOT SE 3 H336
i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met
Toxicological information of the main substances found in the product:
N.A.

## SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
BELNET AEROSOL
The product is classified: Aquatic Chronic 2 - H411
12.2. Persistence and degradability
N.A.
12.3. Bioaccumulative potential
N.A.
12.4. Mobility in soil
N.A.
12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Other adverse effects
None

## SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

## SECTION 14: Transport information

14.1. UN number

| | |
|---|---|
| ADR-UN number: | 1950 |
| IATA-Un number: | 1950 |
| IMDG-Un number: | 1950 |

14.2. UN proper shipping name

| | |
|---|---|
| ADR-Shipping Name: | AEREOSOLS, flammable (2-methylpentane) |
| IATA-Technical name: | Aerosols, flammable |
| IMDG-Technical name: | AEREOSOLS FLAMMABLE (2-methylpentane) |

14.3. Transport hazard class(es)

| | |
|---|---|
| ADR-Class: | 2 |
| ADR-Label: | 2.1 |
| IATA-Class: | 2.1 |
| IATA-Label: | 2.1 |
| IMDG-Class: | 2.1 |

14.4. Packing group

14.5. Environmental hazards

| | |
|---|---|
| Marine pollutant: | Severe marine pollutant |

14.6. Special precautions for user

| | |
|---|---|
| ADR-Tunnel Restriction Code: | D |
| IATA-Passenger Aircraft: | 203 |
| IATA-Cargo Aircraft: | 203 |
| IMDG-Technical name: | AEREOSOLS FLAMMABLE (2-methylpentane) |
| IMDG-EMS: | F-D, S-U |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3
Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P3a, E2

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.
H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.

| **Hazard class and hazard category** | **Code** | **Description** |
|---|---|---|
| Flam. Gas 1 | 2.2/1 | Flammable gas, Category 1 |
| Aerosols 1 | 2.3/1 | Aerosol, Category 1 |
| Press. Gas | 2.5 | Gases under pressure |
| Flam. Liq. 2 | 2.6/2 | Flammable liquid, Category 2 |
| Asp. Tox. 1 | 3.10/1 | Aspiration hazard, Category 1 |
| Skin Irrit. 2 | 3.2/2 | Skin irritation, Category 2 |
| Eye Irrit. 2 | 3.3/2 | Eye irritation, Category 2 |
| STOT SE 3 | 3.8/3 | Specific target organ toxicity - single exposure, Category 3 |
| Aquatic Chronic 2 | 4.1/C2 | Chronic (long term) aquatic hazard, category 2 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| **Classification according to Regulation (EC) Nr. 1272/2008** | **Classification procedure** |
|---|---|
| Aerosols 1, H222+H229 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |
| STOT SE 3, H336 | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

| | |
|---|---|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| ATE: | Acute Toxicity Estimate |
| ATEmix: | Acute toxicity Estimate (Mixtures) |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society). |
| CLP: | Classification, Labeling, Packaging. |
| DNEL: | Derived No Effect Level. |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO: | International Civil Aviation Organization. |
| ICAO-TI: | Technical Instructions by the "International Civil Aviation Organization" (ICAO). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| INCI: | International Nomenclature of Cosmetic Ingredients. |
| KSt: | Explosion coefficient. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWA: | Time-weighted average |
| WGK: | German Water Hazard Class. |