

PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 2.1

Revision Date: 09.11.2009

MOLYKOTE(R) S-1013 CUTTING FLUID SPRAY**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

| | | |
|---|---|---|
| Trade name | : | MOLYKOTE(R) S-1013 CUTTING FLUID SPRAY |
| Company | : | Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Belgium |
| Service | : | Dow Corning (Wiesbaden) Tel: +49 611237507 Fax: +49 611237601 Dow Corning (Seneffe) Tel: +32 64511156 Fax: +32 64888683 |
| Emergency Phone Number | : | Dow Corning (Barry U.K. 24h) Tel: +44 1446732350 Dow Corning (Wiesbaden 24h) Tel: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240 |
| E-mail address (Safety Data Sheet) | : | sdseu@dowcorning.com |
| Use of the substance/preparation | : | Lubricants and additives |

2. HAZARDS IDENTIFICATION

The principal hazards of the product as supplied are:

Extremely flammable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Hydrocarbon aerosol propellant

Hazardous Ingredients:

| Name | CAS-No. | EINECS/ ELINCS No. | Conc. (% w/w) | Classification |
|--------|----------|-----------------------|---------------|----------------|
| Butane | 106-97-8 | 203-448-7 | 28.0 | F+ R12 |

4. FIRST AID MEASURES

| | | |
|-----------------------------|---|--------------------------------|
| On contact with eyes | : | Flush with water. |
| On skin contact | : | Flush with water. |
| If inhaled | : | Remove to fresh air. |
| On ingestion | : | No first aid should be needed. |

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- Suitable extinguishing media** : On large fires use dry chemical, foam or water spray (fog). On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
- Unsuitable extinguishing media** : None known.
- Hazards during fire fighting** : Pressurised container capable of exploding if heated.
- Special protective equipment/procedures** : A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
- Hazardous Combustion Products** : Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear proper protective equipment.
- Environmental precautions** : Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Do not empty into drains.
- Methods for cleaning up** : Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition.

7. HANDLING AND STORAGE

- Advice on safe handling** : General ventilation is required. Local ventilation is required. Avoid eye contact. Do not breathe spray or mist. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - no smoking.
- Advice on storage** : Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Store in a flameproof, well ventilated area.
- Specific uses** : Refer to technical data sheet available on request.
- Unsuitable packaging materials** : None known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Engineering Controls : Ventilation : Refer to Section 7

Exposure controls for hazardous components

| Name | CAS-No. | Exposure Limits |
|--------|----------|--|
| Butane | 106-97-8 | 750 ppm STEL 600 ppm TWA 1,810 mg/m ³ STEL 1,450 mg/m ³ TWA |

Personal protection equipment

Respiratory protection : A suitable respirator must be worn if the product is used in any circumstances where an aerosol or mist may be generated, such as during spraying or similar activities. Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded.
Depending on the working conditions, wear a respiratory mask with filter(s) AXP or use a self-contained respirator.
The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.

Hand protection : Gloves are not normally required.

Eye protection : Safety glasses should be worn.

Skin protection : Protective equipment is not normally necessary.

Hygiene measures : Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Environmental exposure controls : Refer to section 6 and 12.

Additional information : For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these types of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Aerosol **Colour:** Yellow **Odour:** Characteristic odour

Important health, safety and environmental information

Boiling point/range : < 35 °C

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Flash point : < 0 °C (Closed Cup)**Autoignition temperature** : 250 °C**Explosive properties** : No**Specific Gravity** : < 1.0**Oxidizing properties** : No

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

Stability : Stable under normal usage conditions.**Conditions to avoid** : None established.**Materials to avoid** : Can react with strong oxidising agents.**Hazardous decomposition products** : Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

11. TOXICOLOGICAL INFORMATION

On contact with eyes : Slightly irritating.**On skin contact** : Repeated or prolonged contact may cause defatting of the skin, leading to dermatitis.**If inhaled** : May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentrations, unconsciousness.**On ingestion** : Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.**Other Health Hazard Information** : Product may emit formaldehyde vapour at temperatures above 150°C in the presence of air. Formaldehyde vapour is a suspected carcinogen, toxic by inhalation and irritating to eyes and the respiratory system. Exposure limits should be strictly respected.¹ Based on product test data.² Based on test data from similar products.

12. ECOLOGICAL INFORMATION

Environmental fate and distribution

The mineral oils in the product are biodegradable.

Ecotoxicity effects

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No adverse effects on aquatic organisms are predicted.

Bioaccumulation : No specific information is available.

Fate and effects in waste water treatment plants

No adverse effects on bacteria are predicted.

13. DISPOSAL CONSIDERATIONS

Product disposal : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Packaging disposal : Dispose of in accordance with local regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

14. TRANSPORT INFORMATION**Road / Rail (ADR/RID)**

UN No. : UN 1950

Proper Shipping Name : AEROSOLS

Class : 2

Labels : 2.1

Sea transport (IMDG)

UN No. : UN 1950

Proper Shipping Name : AEROSOLS

Class : 2.1

Emergency Schedule (EmS) : F-D
S-U

Air transport (IATA)

UN No. : UN 1950

Proper Shipping Name : Aerosols, flammable

Class : 2.1

Labels : Flammable Gas

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: Apply Gross Wt Supplemental Label to Outer Package if shipping Limited Quantity

15. REGULATORY INFORMATION**Labelling according to EEC Directive**

- Symbols** : F+ Extremely flammable.
- R-phrases** : R12 Extremely flammable.
- S-phrases** : S2 Keep out of the reach of children.
S16 Keep away from sources of ignition - no smoking.
S23(S) Do not breathe spray.
S51 Use only in well-ventilated areas.
- Other phrases** : Do not spray on a naked flame or any incandescent material.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

National legislation / regulations

- Ozone depleting chemicals** : No ozone depleting chemicals are present or used in manufacture.

Status

- EINECS** : All ingredients listed or exempt.

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This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Dow Corning product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Dow Corning Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Dow Corning shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Dow Corning supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Dow Corning supplier.

R12 Extremely flammable.,