

SAFETY DATA SHEET

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

Version: 3.0
Revision Date: 21.01.2013
Superseded date: 09.11.2009**MOLYKOTE(R) S-1013 CUTTING FLUID SPRAY****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

- 1.1 Product name** : MOLYKOTE(R) S-1013 CUTTING FLUID SPRAY
- 1.2 Identified uses** : Lubricants and additives
- Uses advised against** : None known.
- 1.3 Company** : Dow Corning Europe S.A.
rue Jules Bordet - Parc Industriel - Zone C
B-7180 Seneffe
Belgium
- E-mail address (Safety Data Sheet)** : sdseu@dowcorning.com
- Customer Service** : English Tel: +49 611237507
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Français Tel: +32 64511149
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Español Tel: +32 64511163
- Fax: +32 64888683
- 1.4 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

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

According to EU Directives 67/548/EEC or 1999/45/EC:

R12 Extremely flammable.

2.2 Label elements**Labelling according to EEC Directive**

- Symbols** : F+ Extremely flammable.
- R-phrases** : R12 Extremely flammable.
- S-phrases** : S2 Keep out of the reach of children.
S3 Keep in a cool place.
S16 Keep away from sources of ignition - no smoking.
S23(S) Do not breathe spray.
S51 Use only in well-ventilated areas.
S60 This material and its container must be disposed of as hazardous waste.

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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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Hydrocarbon aerosol propellant

According to EU Directives 67/548/EEC or 1999/45/EC:

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

According to Regulation (EC) No. 1272/2008:

| Name | CAS-No. | EINECS/ ELINCS No. | REACH Registration Number | Conc. (% w/w) | Classification |
|--------|----------|--------------------------|---------------------------------|------------------|--|
| Butane | 106-97-8 | 203-448-7 | - | 28.0 | Flammable gas: Category 1 - H220 Gases under pressure: Liquefied gas - H280 |

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

CLP classifications are based on all current available data including from known international organizations. These classifications are subject to revision as more information becomes available.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures:

- On contact with eyes** : Flush with water.
- On skin contact** : Flush with water.
- If inhaled** : Remove to fresh air. Obtain medical attention.
- On ingestion** : Obtain medical attention.

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5. FIRE-FIGHTING MEASURES

- 5.1 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.
- 5.2 Hazards during fire fighting** : Pressurised container capable of exploding if heated.
- 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.
- 5.3 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.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency 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. Eliminate all possible sources of ignition.
- 6.2 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.
- 6.3 Methods and materials for containment and 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

- 7.1 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. Do not empty into drains.
- 7.2 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. Storage temperature: minimum 0 °C, maximum 40 °C
- 7.3 Specific uses** : Refer to technical data sheet available on request.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

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

8.2 Exposure controls

Engineering Controls : Ventilation : Refer to Section 7.1

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/face 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.

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.

Environmental exposure controls : Refer to section 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Aerosol

Colour : Yellow

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| | | |
|---------------------------------|---|-------------------------------|
| Odour | : | Characteristic odour |
| Boiling point/range | : | < 35 °C |
| Flash point | : | < 0 °C < 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

| | | |
|--|---|---|
| 10.1 Reactivity | : | None known. |
| 10.2 Stability | : | Stable under normal usage conditions. |
| 10.3 Possibility of hazardous reactions | : | None known. |
| 10.4 Conditions to avoid | : | Eliminate all possible sources of ignition. |
| 10.5 Materials to avoid | : | Can react with strong oxidising agents. |
| 10.6 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**Acute toxicity:**

| | | |
|-----------------------------|---|---|
| On contact with eyes | : | Slightly irritating. |
| On skin contact | : | Slightly irritating. |
| If inhaled | : | May cause pulmonary oedema and pneumonitis. |
| On ingestion | : | Small amounts transferred to the mouth by fingers during use should not injure. |

Chronic toxicity:

| | | |
|------------------------|---|---|
| On skin contact | : | Can irritate on prolonged or repeated skin contact. |
| If inhaled | : | May cause pulmonary oedema and pneumonitis. |

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- On ingestion** : Small amounts transferred to the mouth by fingers during use should not injure.
- Toxicokinetics, metabolism and distribution** : No specific information is available.
- 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****12.1 Ecotoxicity effects**

No adverse effects on aquatic organisms are predicted.

12.2 Persistence and degradability

The mineral oils in the product are biodegradable.

12.3 Bioaccumulation

No specific information is available.

12.4 Release to waters / Mobility in soil**Fate and effects in waste water treatment plants:**

No adverse effects on bacteria are predicted.

13. DISPOSAL CONSIDERATIONS

- Product and packaging 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.

14. TRANSPORT INFORMATION**Road / Rail (ADR/RID)****UN No.** : UN 1950**Proper Shipping Name** : AEROSOLS**Class** : 2

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MOLYKOTE(R) S-1013 CUTTING FLUID SPRAY**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

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

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Status****EINECS** : All ingredients listed, exempt or notified (ELINCS).

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MOLYKOTE(R) S-1013 CUTTING FLUID SPRAY**16. OTHER INFORMATION**

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.

Source of information: Internal data and publically available information

R12 Extremely flammable.,

H220 Extremely flammable gas., **H280** Contains gas under pressure; may explode if heated.