

MOLYKOTE(R) S-1011 SILICONE FREE MOLD RELEASE SPRAY**1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

Trade name	:	MOLYKOTE(R) S-1011 SILICONE FREE MOLD RELEASE SPRAY		
Company	:	Dow Corning S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Belgium		
Service	:	Dow Corning Central Europe	Tel: +49 6112371	
			Fax: +49 611237609	
		Dow Corning Northern Europe	Tel: +44 1676528000	
			Fax: +44 1676528001	
		Dow Corning Southern Europe	Tel: +33 472841360	
Emergency Phone Number	:		Fax: +33 472841379	
		Dow Corning (Barry U.K. 24h)	Tel: +44 1446732350	
		Dow Corning (Wiesbaden 24h)	Tel: +49 61122158	
		Dow Corning (Seneffe 24h)	Tel: +32 64 888240	
Use of the substance/preparation	:	Anti-set-off and anti-adhesive agents		

2. 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	64.0	F+	R12
Naphtha (petroleum), hydrotreated light	64742-49-0	265-151-9	19.0	N Xn Xi F	R51/53 R65 R67 R38 R11
Dec-1-ene, homopolymer, hydrogenated	68037-01-4	Exempt or not available	6.3		

3. HAZARDS IDENTIFICATION

The principal hazards of the product as supplied are:

Extremely flammable.

Vapours may cause drowsiness and dizziness.

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

4. FIRST AID MEASURES

MOLYKOTE(R) S-1011 SILICONE FREE MOLD RELEASE SPRAY

On contact with eyes	:	Flush with water.
On skin contact	:	Flush with water.
If inhaled	:	Remove to fresh air. Obtain medical attention.
On ingestion	:	Do not induce vomiting. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide, foam, dry powder or fine 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. Keep containers cool with water spray until well after the fire is out. Determine the need to evacuate or isolate the area according to your local emergency plan.
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.
Precautions to protect the environment	:	Do not empty into drains. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
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. 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. Avoid skin and eye contact. Do not breathe vapour.
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.

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Unsuitable packaging materials : None known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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/m3 STEL 1,450 mg/m3 TWA
Dec-1-ene, homopolymer, hydrogenated	68037-01-4	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral

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.
A full-face mask is recommended.
Recommended Filter type: SL
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** : Chemical protective gloves should be worn: Silver shield(TM). 4H(TM). Viton(TM). Regarding glove's breakthrough time...,contact your chemical protective glove supplier.
- Eye protection** : Safety glasses should be worn.
- Skin protection** : Wear impervious overalls in circumstances where significant skin contact can occur.
- 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

MOLYKOTE(R) S-1011 SILICONE FREE MOLD RELEASE SPRAY

Form: Aerosol **Colour:** Clear to slightly hazy, colourless **Odour:** Slight

Important health, safety and environmental information

Boiling point/range : < 35 °C

Flash point : < 0 °C

Autoignition temperature : 200 °C

Explosive properties : No

Specific Gravity : 0.74

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. Can irritate on prolonged or repeated contact.

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

MOLYKOTE(R) S-1011 SILICONE FREE MOLD RELEASE SPRAY**Environmental fate and distribution**

Organic solvents may evaporate into the atmosphere, where they degrade. The mineral oils in the product are biodegradable.

Ecotoxicity effects

Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Bioaccumulation : Low potential to bioaccumulate.

Fate and effects in waste water treatment plants

May cause adverse effects on bacteria. If used as intended this product is not expected to reach waste water treatment plants.

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)

MOLYKOTE(R) S-1011 SILICONE FREE MOLD RELEASE SPRAY

UN No. : UN 1950

Proper Shipping Name : Aerosols, flammable

Class : 2.1

Labels : Flammable Gas

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

Symbols : F+ Extremely flammable.

R-phrases : R12 Extremely flammable.
R67 Vapours may cause drowsiness and dizziness.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
S24/25 Avoid contact with skin and eyes.
S51 Use only in well-ventilated areas.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

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.

MOLYKOTE(R) S-1011 SILICONE FREE MOLD RELEASE SPRAY**16. OTHER INFORMATION**

This product safety data sheet was prepared in compliance with Commission Directive 91/155/EEC, 67/548/EEC and 1999/45/EC as well as their 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 Commission Directive 1999/45/EC.

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.

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.