

MOLYKOTE(R) PTFE-N UV SPRAY

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Polytetrafluoroethylene (PTFE).

Hazardous Ingredients:

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification	
Butane	106-97-8	203-448-7	<=34.0	F+	R12
Acetone	67-64-1	200-662-2	<=23.0	F Xi	R11 R36 R66 R67
n-Butyl acetate	123-86-4	204-658-1	<=10.0		R66 R10 R67
Butan-1-ol	71-36-3	200-751-6	<=6.6	Xi Xn	R37/38 R41 R22 R10 R67
Iso-butylmethacrylate polymer	-	Exempt or not available	<=4.6		
Xylene	1330-20-7	215-535-7	<=3.7	Xn Xi	R20/21 R38 R10
Naphtha (petroleum),	64742-82-1	265-185-4	<=2.6	Xn	R65

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hydrodesulfurized heavy				N	R51/53 R10 R66 R67
Ethylbenzene	100-41-4	202-849-4	<=1.2	Xn F	R20 R11
1,2,4-Trimethylbenzene	95-63-6	202-436-9	<=0.13	N Xi Xn	R51/53 R10 R36/37/38 R20

3. HAZARDS IDENTIFICATION

The principal hazards of the product as supplied are:

Extremely flammable.

Irritating to eyes.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

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

4. FIRST AID MEASURES

- On contact with eyes** : Immediately flush with water. If eye irritation persists, consult a specialist.
- 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. Toxic vapours are evolved.
- 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.

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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. Traces of fluorinated products.

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.

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
Acetone	67-64-1	1,500 ppm STEL 750 ppm TWA 3,620 mg/m3 STEL 1,810 mg/m3 TWA
n-Butyl acetate	123-86-4	200 ppm STEL 150 ppm TWA 966 mg/m3 STEL

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		724 mg/m3 TWA
Butan-1-ol	71-36-3	50 ppm STEL 154 mg/m3 STEL
Iso-butylmethacrylate polymer	-	4 mg/m3 TWA Respirable dust. 10 mg/m3 TWA Inhalable dust.
Xylene	1330-20-7	150 ppm STEL 100 ppm TWA 662 mg/m3 STEL 441 mg/m3 TWA
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	100 ppm TWA (supplier recommendation).
Ethylbenzene	100-41-4	125 ppm STEL 100 ppm TWA 552 mg/m3 STEL 441 mg/m3 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. 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: Viton(TM). 4H(TM). Silver shield(TM). Regarding glove's breakthrough time...,contact your chemical protective glove supplier.
Eye protection	:	Face shield or safety goggles.
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**

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Form: Aerosol **Colour:** Translucent white **Odour:** Solvent

Important health, safety and environmental information

Specific Gravity : 0.87

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. Traces of fluorinated products.

11. TOXICOLOGICAL INFORMATION

On contact with eyes : 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.

¹ Based on product test data.

² Based on test data from similar products.

12. ECOLOGICAL INFORMATION**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.

MOLYKOTE(R) PTFE-N UV SPRAY**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

MOLYKOTE(R) PTFE-N UV SPRAY**15. REGULATORY INFORMATION****Labelling according to EEC Directive**

- Symbols** : F+ Extremely flammable.
Xi Irritant.
- R-phrases** : R12 Extremely flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
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, exempt or notified (ELINCS).
- AICS** : Consult your local Dow Corning office.
- IECSC** : Consult your local Dow Corning office.
- KECL** : One or more ingredients are not listed or exempt or identified.
- PICCS** : One or more ingredients are not listed or exempt.
- TSCA** : For R&D purposes only. One or more of the components of this product may not be listed on the TSCA inventory of chemical substances. Product should be used solely for scientific experimentation, research or analysis under the supervision of technically qualified individuals.

MOLYKOTE(R) PTFE-N UV 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.

R10 Flammable., **R11** Highly flammable., **R12** Extremely flammable., **R20** Harmful by inhalation., **R20/21** Harmful by inhalation and in contact with skin., **R22** Harmful if swallowed., **R36** Irritating to eyes., **R36/37/38** Irritating to eyes, respiratory system and skin., **R37/38** Irritating to respiratory system and skin., **R38** Irritating to skin., **R41** Risk of serious damage to eyes., **R51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment., **R65** Harmful: May cause lung damage if swallowed., **R66** Repeated exposure may cause skin dryness or cracking., **R67** Vapours may cause drowsiness and dizziness.