

SAFETY DATA SHEET

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

Version: 5.0
Revision Date: 21.03.2013
Superseded date: 23.04.2009**MOLYKOTE(R) D-708 AF COATING****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

1.1 Product name	:	MOLYKOTE(R) D-708 AF COATING
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 Deutsch Tel: +49 611237500 Français Tel: +32 64511149 Italiano Tel: +32 64511170 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:**R11 Highly flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R41 Risk of serious damage to eyes.
R68 Possible risk of irreversible effects.**2.2 Label elements****Labelling according to EEC Directive**

Contains	:	Isobutyl methyl ketone
	:	Cyclohexanone
	:	Phenol
Symbols	:	F Highly flammable. Xn Harmful.

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- R-phrases** : R11 Highly flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R41 Risk of serious damage to eyes.
R68 Possible risk of irreversible effects.
- S-phrases** : S23(S) Do not breathe spray.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S23(V) Do not breathe vapour.
S39 Wear eye/face protection.
S51 Use only in well-ventilated areas.
S36/37 Wear suitable protective clothing and gloves.

2.3 Other hazards

Vapours may form explosive mixtures with air.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Organic compound in solvent

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Butanone	78-93-3	201-159-0	-	40.0	F Xi R11 R36 R66 R67
Isobutyl methyl ketone	108-10-1	203-550-1	-	17.0	F Xn Xi R11 R20 R36/37 R66
Cyclohexanone	108-94-1	203-631-1	-	15.0	Xn Xi R10 R20/21/22 R38 R41
Polytetrafluoroethylene	9002-84-0	Exempt or not available	-	8.3	Substance with a Community workplace exposure limit
Carbon black	1333-86-4	215-609-9	-	2.0	Substance with a Community workplace exposure limit
Phenol	108-95-2	203-632-7	-	1.6	C Xn, Mutagen category 3. R68 T R23/24/25 Xn R48/20/21/22
Methylphenol	1319-77-3	Exempt or not available	-	0.34	T C R24/25 R34

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Butanone	78-93-3	201-159-0	-	40.0	Flammable liquid: Category 2 - H225 Serious eye damage/eye irritation: Category 2 - H319 Specific target organ toxicity - single exposure (Inhalation - vapour): Category 3 (narcotic effects) - H336 EUH066
Isobutyl methyl ketone	108-10-1	203-550-1	-	17.0	Flammable liquid: Category 2 - H225 Acute toxicity (Inhalation - vapour): Category 4 - H332 Serious eye damage/eye irritation: Category 2 - H319

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					Specific target organ toxicity - single exposure (Inhalation - vapour): Category 3 (respiratory tract irritation) - H335 EUH066
Cyclohexanone	108-94-1	203-631-1	-	15.0	Flammable liquid: Category 3 - H226 Acute toxicity (Oral): Category 4 - H302 Acute toxicity (Dermal): Category 4 - H312 Acute toxicity (Inhalation - vapour): Category 4 - H332 Skin corrosion/irritation: Category 2 - H315 Serious eye damage/eye irritation: Category 1 - H318
Polytetrafluoroethylene	9002-84-0	Exempt or not available	-	8.3	Substance with a Community workplace exposure limit
Carbon black	1333-86-4	215-609-9	-	2.0	Substance with a Community workplace exposure limit
Phenol	108-95-2	203-632-7	-	1.6	Acute toxicity (Oral): Category 3 - H301 Acute toxicity (Dermal): Category 3 - H311 Acute toxicity (Inhalation - dust and mist): Category 3 - H331 Skin corrosion/irritation: Category 1B - H314 Germ cell mutagenicity: Category 2 - H341 Specific target organ toxicity - repeated exposure (Oral): Category 2 (central nervous system, kidney) - H373 Specific target organ toxicity - repeated exposure (Inhalation): Category 2 (lungs, heart, kidney, liver, central nervous system) - H373 Specific target organ toxicity - repeated exposure (Dermal): Category 2 (central nervous system, muscle) - H373
Methylphenol	1319-77-3	Exempt or not available	-	0,34	Acute toxicity (Oral): Category 3 - H301 Acute toxicity (Dermal): Category 3 - H311 Skin corrosion/irritation: Category 1B - H314

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.

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On contact with eyes : Immediately flush with water. Obtain medical attention immediately.

On skin contact : Wipe off and wash with soap and water. Obtain medical attention.

If inhaled : Remove to fresh air. Obtain medical attention.

On ingestion : Do not induce vomiting. Obtain medical attention.

4.2 Most important symptoms/effects, acute and delayed : Harmful by inhalation, in contact with skin and if swallowed.
Risk of serious damage to eyes.
Possible risk of irreversible effects.

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 : Vapours are heavier than air and can travel along ground to remote ignition sources. Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Vapours may form explosive mixtures with air.

Hazardous Combustion Products : Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Fluorine compounds.

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.

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. Very large spills should be contained by bunding, etc... procedures. Mop, wipe or soak up with absorbent material and place in a

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container with a lid. The spilled product produces an extremely slippery surface.

7. HANDLING AND STORAGE

- 7.1 Advice on safe handling** : General ventilation is required. Local ventilation is recommended. Avoid skin and eye contact. Do not breathe vapour. Do not empty into drains. Do not ingest. Do not breathe spray or mist.
- 7.2 Advice on storage** : Store in a flameproof, well ventilated area. Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Keep container tightly closed. Vapours may form explosive mixtures with air. Storage temperature: maximum 40 °C
- 7.3 Specific uses** : Refer to technical data sheet available on request.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Name	CAS-No.	Exposure Limits
Butanone	78-93-3	200 ppm TWA 300 ppm STEL 600 mg/m ³ TWA 899 mg/m ³ STEL
Isobutyl methyl ketone	108-10-1	50 ppm TWA 100 ppm STEL 208 mg/m ³ TWA 416 mg/m ³ STEL
Cyclohexanone	108-94-1	10 ppm TWA 20 ppm STEL
Polytetrafluoroethylene	9002-84-0	4 mg/m ³ TWA Respirable dust 10 mg/m ³ TWA Inhalable dust
Carbon black	1333-86-4	3.5 mg/m ³ TWA 7 mg/m ³ STEL
Phenol	108-95-2	2 ppm TWA

8.2 Exposure controls

Engineering Controls : Ventilation : Refer to Section 7.1

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Personal protection equipment

- Respiratory protection** : 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.
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.
Depending on the working conditions, wear a respiratory mask with filter(s) AP 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** : Chemical protective gloves should be worn: Polyvinyl alcohol(PVA). Nitrile rubber. Silver shield(TM). 4H(TM). Viton(TM). Regarding glove's breakthrough time, contact your chemical protective glove supplier.
- Eye/face 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. Remove contaminated clothing immediately.
- Environmental exposure controls** : Refer to section 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : Liquid
- Colour** : Black
- Odour** : Solvent
- Boiling point/range** : > 35 °C
- Flash point** : 0 °C (Closed Cup)
- Autoignition temperature** : 514 °C
- Explosive properties** : No
Vapours may form explosive mixtures with air.
- Specific Gravity** : 0.95
- Viscosity** : 28 mm²/s at 25°C.
- Oxidizing properties** : No
- Decomposition temperature** : 200 °C

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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: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Fluorine compounds.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

- On contact with eyes** : Causes serious eye damage.
- On skin contact** : Harmful in contact with skin.
- If inhaled** : Harmful if inhaled.
- On ingestion** : Harmful if swallowed.

Chronic toxicity:

- On skin contact** : Can irritate on prolonged or repeated contact. Suspected of causing genetic defects.
- If inhaled** : Prolonged or repeated inhalation may cause systemic adverse effects. Suspected of causing genetic defects.
- On ingestion** : Repeated swallowing may cause systemic adverse effects. Suspected of causing genetic defects.

Toxicokinetics, metabolism and distribution : Dangerous amounts can be absorbed through the skin.

Other Health Hazard Information : This product contains (a) powder(s) hazardous by inhalation. This is not relevant to the current physical form of the product, which is not in a respirable form.

¹ Based on product test data.

² Based on test data from similar products.

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12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity effects

No adverse effects on aquatic organisms are predicted.

12.2 Persistence and degradability

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

12.3 Bioaccumulation

Low potential to bioaccumulate.

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 1224
Proper Shipping Name : KETONES, LIQUID, N.O.S.(Methyl ethyl ketone / Methyl isobutyl ketone)
Class : 3
Packing group : II
Labels : 3

Sea transport (IMDG)

UN No. : UN 1224
Proper Shipping Name : KETONES, LIQUID, N.O.S.(Methyl ethyl ketone / Methyl isobutyl ketone)
Class : 3

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Packing group	:	II
Emergency Schedule (EmS)	:	F-E S-D
Labels	:	flammable liquid
<u>Air transport (IATA)</u>		
UN No.	:	UN 1224
Proper Shipping Name	:	Ketones, liquid, n.o.s.(Methyl ethyl ketone / Methyl isobutyl ketone)
Class	:	3
Packing group	:	II
Labels	:	Flammable Liquid

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).
TSCA	:	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
AICS	:	All ingredients listed, exempt or notified.
IECSC	:	All ingredients listed or exempt.
ENCs/ISHL	:	All ingredients listed, exempt or notified.
DSL	:	All ingredients listed or exempt.
KECL	:	One or more ingredients are not listed or exempt or identified.

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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.

Source of information: Internal data and publically available information

R10 Flammable., **R11** Highly flammable., **R20** Harmful by inhalation., **R20/21/22** Harmful by inhalation, in contact with skin and if swallowed., **R23/24/25** Toxic by inhalation, in contact with skin and if swallowed., **R24/25** Toxic in contact with skin and if swallowed., **R34** Causes burns., **R36** Irritating to eyes., **R36/37** Irritating to eyes and respiratory system., **R38** Irritating to skin., **R41** Risk of serious damage to eyes., **R48/20/21/22** Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed., **R66** Repeated exposure may cause skin dryness or cracking., **R67** Vapours may cause drowsiness and dizziness., **R68** Possible risk of irreversible effects.

H225 Highly flammable liquid and vapour., **H226** Flammable liquid and vapour., **H301** Toxic if swallowed., **H302** Harmful if swallowed., **H311** Toxic in contact with skin., **H312** Harmful in contact with skin., **H314** Causes severe skin burns and eye damage., **H315** Causes skin irritation., **H318** Causes serious eye damage., **H319** Causes serious eye irritation., **H331** Toxic if inhaled., **H332** Harmful if inhaled., **H335** May cause respiratory irritation., **H336** May cause drowsiness or dizziness., **H341** Suspected of causing genetic defects.