

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

Version: 4.1

Revision Date: 21.10.2013 Superseded date: 21.02.2011

MOLYKOTE(R) DX PASTE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product name : MOLYKOTE(R) DX PASTE

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

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Belgium

E-mail address (Safety

Data Sheet)

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1.4 Emergency Phone

Number

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling according to EEC Directive

Symbols : N Dangerous for the environment.

R-phrases : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

S-phrases : S23(V) Do not breathe vapour.

S24/25 Avoid contact with skin and eyes.

S29 Do not empty into drains. S51 Use only in well-ventilated areas.

S57 Use appropriate container to avoid environmental contamination.

S60 This material and its container must be disposed of as hazardous waste.



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COMPOSITION / INFORMATION ON INGREDIENTS							
on: Mixture o	f inorganic and	l organic compo	ınds				
ives 67/548/EE	CC or 1999/45/	EC:					
CAS-No.	EINECS/ ELINCS	REACH Registration	Conc. (% w/w)	Classification Substance with a Community workplace exposure limit			
64742-52-5	265-155-0	01-21194617 0-45	40,0				
64741-96-4	265-097-6	-	11,0	Substance with a Community workplace exposure limit			
64742-65-0	265-169-7	-	5,2	Substance with exposure limit	a Community workplace		
61791-53-5	263-186-4	-	2,8	C N	R34 R50		
1314-13-2	215-222-5		1,9	N	R50/53		
ı (EC) No. 127	2/2008:	01.02					
CAS-No.	EINECS/ ELINCS	REACH Registration	Conc. (% w/w)	Classification Substance with a Community workplace exposure limit			
64742-52-5	265-155-0	01-21194617 0-45	40,0				
64741-96-4	265-097-6	-	11,0	Substance with a Community workplace exposure limit			
64742-65-0	265-169-7	-	5,2	Substance with a Community workplace exposure limit			
61791-53-5	263-186-4	-	2,8	Skin corrosion/irritation: Category 1B - H314 Acute aquatic hazard: Category 1 - H400			
1314-13-2	215-222-5	01-21194638 81-32	1,9	Acute aquatic hazard: Category 1 - H400 Chronic aquatic hazard: Category 1 - H410			
	on: Mixture oves 67/548/EF CAS-No. 64742-52-5 64741-96-4 64742-65-0 61791-53-5 1314-13-2 1 (EC) No. 127 CAS-No. 64742-52-5 64741-96-4 64742-65-0 61791-53-5	on: Mixture of inorganic and ves 67/548/EEC or 1999/45/ CAS-No. EINECS/ELINCS No. 64742-52-5 265-155-0 64741-96-4 265-097-6 61791-53-5 263-186-4 1314-13-2 215-222-5 A (EC) No. 1272/2008: CAS-No. EINECS/ELINCS No. 64742-52-5 265-155-0 64741-96-4 265-097-6 64741-96-4 265-097-6	On: Mixture of inorganic and organic components ves 67/548/EEC or 1999/45/EC: CAS-No. EINECS/ELINCS REACH Registration No. Number 01-21194617 0-45 64742-52-5 265-155-0 01-21194617 0-45 64741-96-4 265-097-6 - 61791-53-5 263-186-4 - 1314-13-2 215-222-5 01-21194638 81-32 1CC) No. 1272/2008: REACH Registration Number 01-21194617 0-45 64742-52-5 265-155-0 01-21194617 0-45 64741-96-4 265-097-6 - 64742-65-0 265-169-7 - 61791-53-5 263-186-4 - 1314-13-2 215-222-5 01-21194638	On: Mixture of inorganic and organic compounds ves 67/548/EEC or 1999/45/EC: REACH Registration Number 01-21194617 0-45 Conc. (% w/w) 64742-52-5 265-155-0 01-21194617 0-45 40,0 64741-96-4 265-097-6 - 11,0 64742-65-0 265-169-7 - 5,2 61791-53-5 263-186-4 - 2,8 1314-13-2 215-222-5 01-21194638 1,9 1,9 1CC) No. 1272/2008: REACH Registration Number 01-21194617 0-45 (% w/w) 64742-52-5 265-155-0 01-21194617 0-45 40,0 64741-96-4 265-097-6 - 11,0 64742-65-0 265-169-7 - 5,2 61791-53-5 263-186-4 - 2,8	con: Mixture of inorganic and organic compounds ves 67/548/EEC or 1999/45/EC: CAS-No. EINECS/ REACH (% w/w) No. Conc. (% w/w) Number Classification (% w/w) Number 64742-52-5 265-155-0 01-21194617 (0-45) 40,0 Substance with exposure limit 64741-96-4 265-097-6 - 11,0 Substance with exposure limit 64742-65-0 265-169-7 - 5,2 Substance with exposure limit 61791-53-5 263-186-4 - 2,8 C N 1314-13-2 215-222-5 01-21194638 (% w/w) N 14 (EC) No. 1272/2008: REACH (% w/w) Conc. (% w/w) CAS-No. EINECS/ REACH (% w/w) Conc. (% w/w) No. Number (% w/w) Number (% w/w) 64742-52-5 265-155-0 01-21194617 (% w/w) 40,0 Substance with a C limit 64741-96-4 265-097-6 - 11,0 Substance with a C limit 64742-65-0 265-169-7 - 5,2 Substance with a C limit 61791-53-5 263-186-4 -		



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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.

Remove to fresh air. If inhaled

Do not induce vomiting. Obtain medical attention. On ingestion

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

None known.

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. Traces of fluorinated products. Formaldehyde. Nitrogen products.

Phosphorus products.

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

: Wear proper protective equipment.

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 : Scrape up and place in a container fitted with a lid. The spilled product produces an



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containment and cleaning

up

extremely slippery surface.

7. HANDLING AND STORAGE

7.1 Advice on safe handling : General ventilation is recommended. Local ventilation is recommended. Avoid skin and

eye contact. Do not breathe vapour. Do not breathe spray or mist. Do not empty into

drains.

7.2 Advice on storage : Do not store with oxidizing agents.

Storage temperature: minimum 0 °C, maximum 40 °C

7.3 Specific uses : Refer to technical data sheet available on request.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

8.1 Control parameters				
Name	CAS-No.	Exposure Limits		
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5 mg/m3 TWA Oil Mist,mineral		
Distillates (petroleum), solvent refined heavy naphthenic	64741-96-4	5 mg/m3 TWA Oil Mist,mineral		
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral		
Zinc oxide	1314-13-2	2 mg/m3 TWA Respirable fraction 10 mg/m3 STEL Respirable fraction		
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) BP 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 where repeated or prolonged contact can

occur: Silver shield(TM). 4H(TM). Regarding glove's breakthrough time, contact your

chemical protective glove supplier.

Eye/face protection : Safety goggles 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.

Additional information : These precautions are for room temperature handling. Use at elevated temperature or

aerosol/spray applications may require added precautions.

Environmental exposure

<u>controls</u>

Refer to section 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Paste

Colour : White

Odour : Slight

Flash point : > 200 °C (Closed Cup)

Explosive properties : No

Specific Gravity : 1,14

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.

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10.2 Stability : Stable under normal usage conditions.

10.3 Possibility of hazardous

reactions

None known.

10.4 Conditions to avoid : None established.

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. Traces of fluorinated products. Formaldehyde. Nitrogen products.

Phosphorus products.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

On contact with eyes : Slightly irritating.

On skin contact : Slightly irritating.

If inhaled : No adverse effects are normally expected.

On ingestion : Smallest quantities reaching the lungs through swallowing or subsequent vomiting may

result in lung oedema or pneumonia.

Chronic toxicity:

On skin contact : Can irritate on prolonged or repeated skin contact.

If inhaled : No adverse effects are normally expected.

On ingestion : Repeated swallowing may cause gastrointestinal irritation and disturbance.

Toxicokinetics, metabolism

and distribution

No specific information is available.

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.

Based on test data from similar products.



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12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity effects

Very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. However, due to the physical form and water-insolubility of the product the bioavailability is negligible.

12.2 Persistence and degradability

Solid material, insoluble in water.

12.3 Bioaccumulation

No bioaccumulation potential.

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

This material must be disposed of as hazardous waste. 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 3077

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.(Tallowalkyltriethylene diamineoleate / Zinc Oxide)

Class : 9

Packing group : III

Labels : 9

Sea transport (IMDG)

UN No. : UN 3077

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.(Tallowalkyltriethylene diamineoleate / Zinc Oxide)



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Class : 9

Packing group : III

Emergency Schedule

(EmS)

F-A S-F

Marine pollutant : Tallowalkyltriethylene diamineoleate

Zinc Oxide

Labels : Miscellaneous dangerous substances and articles

Air transport (IATA)

UN No. : UN 3077

Proper Shipping Name : Environmentally hazardous substance, solid, n.o.s.(Tallowalkyltriethylene diamineoleate /

Zinc Oxide)

Class : 9

Packing group : III

Labels : Miscellaneous dangerous goods

: 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).

TSCA : All chemical substances in this material are included on or exempted from listing on the

TSCA Inventory of Chemical Substances.

AICS : One or more ingredients are not listed or exempt.

IECSC : All ingredients listed or exempt.

ENCS/ISHL : All ingredients listed, exempt or notified.

KECL : One or more ingredients are not listed or exempt or identified.

PICCS : One or more ingredients are not listed or exempt.

DSL : All ingredients listed or exempt.



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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 amendements, 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

R34 Causes burns., R50 Very toxic to aquatic organisms., R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H314 Causes severe skin burns and eye damage., H400 Very toxic to aquatic life., H410 Very toxic to aquatic life with long lasting effects.