

# Safety Data Sheet

## According to Regulation (EC) No. 1907/2006 (REACH)

Trade name : **High Vacuum Grease**  
Part number : **214-237**

Revision date : 12.09.2022  
Date of print : 11.12.2022  
Version : 5.0

### 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product Identifier

Trade Name: MOLYKOTE ® High Vacuum Grease / DOW CORNING® HIGH VACUUM GREASE

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against relevant identified uses (Product categories [PC])

Use: Lubricants and lubricant additives.

#### 1.3 Details of the supplier of the safety data sheet

Supplier: INFICON AG  
Street: Alte Landstrasse 6  
Postal code/city: LI-9496 Balzers  
Phone: 00423 / 388 3111  
E-Mail: [reach.liechtenstein@inficon.com](mailto:reach.liechtenstein@inficon.com)

#### 1.4 Emergency Telephone Number (worldwide)

Tox Info Suisse +41 44 251 51 51 (24 hours)

### 2 Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No. 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

#### 2.2 Label elements

**Labelling (REGULATION (EC) No. 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

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#### 2.3 Other hazards

Endocrine disrupting properties (human health):

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties (environment):

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3 Composition/information on ingredients

#### 3.1 Mixtures

**Chemical nature:**

Silicone compound

This product is a mixture.

This product does not contain, in concentrations equal to or greater than those laid down by the Regulation (EC) No 1907/2006 - Annex II, any substances presenting a health or environmental hazard nor any substances for which there are Community workplace exposure limits in place.

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#### 4 First aid measures

##### 4.1 Description of first aid measures

###### General information

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

###### Inhalation

Move person to fresh air; if effects occur, consult a physician.

###### Skin contact

Wash off with plenty of water.

###### Eye contact

Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

###### Ingestion

If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

##### 4.2 Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

##### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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#### 5 Firefighting measures

##### 5.1 Extinguishing media

###### Suitable extinguishing media

Water spray Alcohol-resistant foam Carbon dioxide (CO<sub>2</sub>) Dry chemical

###### Unsuitable extinguishing media

None known.

##### 5.2 Special hazards arising from the substance or mixture

###### Hazardous combustion products:

Carbon oxides Silicon oxides Boron oxides Formaldehyde

###### Unusual Fire and Explosion Hazards:

Exposure to combustion products may be a hazard to health.

##### 5.3 Advice for firefighters

###### Fire Fighting Procedures:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

###### Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

#### 6 Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Follow safe handling advice and personal protective equipment recommendations.

##### 6.2 Environmental precautions

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

##### 6.3 Methods and material for containment and cleaning up

Wipe up or scrape up and contain for salvage or disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

##### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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#### 7 Handling and storage

##### 7.1 Precautions for safe handling

Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

##### 7.2 Conditions for safe storage, including any incompatibilities

Keep in properly labelled containers. Store in accordance with the particular national regulations.

Do not store with the following product types: Strong oxidizing agents.

Unsuitable materials for containers: None known.

##### 7.3 Specific end use(s)

Information on specific end use(s) of this product may be provided in a technical data sheet/annex to the SDS (if available).

#### 8 Exposure controls/personal protection

##### 8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

##### 8.2 Exposure controls

###### Engineering controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

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#### Individual protection measures

##### Eye / face protection

Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.

##### Skin protection

##### Hand protection

Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

##### Other protection:

Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

##### Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process.

##### Environmental exposure controls

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |                           |
|--|---|---------------------------|
| Physical state:                          | solid (20°C)                            |                           |
| Form:                                    | Grease                                  |                           |
| Colour:                                  | white                                   |                           |
| Odour:                                   | none                                    |                           |
| Odour Threshold:                         | No data available                       |                           |
| pH:                                      | Not applicable                          |                           |
| Melting point/freezing point:            | No data available                       |                           |
| Initial boiling point and boiling range: | Not applicable                          |                           |
| Flash point:                             | > 100°C                                 | Method: (seta closed cup) |
| Flammability (solid, gas):               | Not classified as a flammability hazard |                           |

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|   |                                       |
|---|---------------------------------------|
| Flammability (liquids):                 | No data available                     |
| Upper explosion limit:                  | Not applicable                        |
| Lower explosion limit:                  | Not applicable                        |
| Vapour pressure:                        | No applicable                         |
| Relative vapour density:                | Not applicable                        |
| Density and/or relative density:        | 1.1                                   |
| Partition coefficient: n-octanol/water: | No data available                     |
| Solubility(ies)                         | Water solubility not applicable       |
| Auto-ignition temperature:              | Not applicable                        |
| Decomposition temperature:              | Thermal decomposition, Not applicable |
| Viscosity, kinematic:                   | No data available                     |
| Particle characteristics:               | Particle size: not applicable         |

#### 9.2 Other information

|   |  |
|---|--|
| Oxidizing properties  | The substance or mixture is not classified as oxidizing.                     |
| Self-heating substances   | The substance or mixture is not classified as self heating.                  |
| Substances and mixtures which in contact with water emit flammable gases, | The substance or mixture does not emit flammable gases in contact with water |
| Corrosive to metals   | Not corrosive to metals  |
| Evaporation rate  | Not applicable   |
| Molecular weight  | Not applicable   |

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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#### 10 Stability and reactivity

##### 10.1 Reactivity

Not classified as a reactivity hazard.

##### 10.2 Chemical stability

Stable under normal conditions.

##### 10.3 Possibility of hazardous reactions

Can react with strong oxidizing agents.

##### 10.4 Conditions to avoid

None known

##### 10.5 Incompatible materials

Oxidizing agents

##### 10.6 Hazardous decomposition products

Formaldehyde

#### 11 Toxicological information

Toxicological information appears in this section when such data is available.

##### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

###### Acute toxicity (Acute oral toxicity)

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

###### Acute toxicity (Acute dermal toxicity)

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

###### Acute toxicity (Acute inhalation toxicity)

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.



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#### **Skin corrosion/irritation**

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### **Serious eye damage/eye irritation**

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### **Respiratory or skin sensitisation**

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### **Germ cell mutagenicity**

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### **Carcinogenicity**

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### **Reproductive toxicity**

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Toxicity to reproduction assessment:

Product test data not available. Refer to component data.

Assessment Teratogenicity:

Product test data not available. Refer to component data

#### **STOT - single exposure**

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### **STOT - repeated exposure**

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

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#### Aspiration Hazard

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### 11.2 Information on other hazards

##### Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

##### Further information

No data available

## 12 Ecological information

Ecotoxicological information appears in this section when such data is available.

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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#### 12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

### 13 Disposal considerations

#### 13.1 Waste treatment methods

Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

### 14 Transport information

#### Classification for ROAD and Rail transport (ADR/RID)

- |                                   |   |
|-----------------------------------|---|
| 14.1 UN number or ID number       | Not applicable  |
| 14.2 UN proper shipping name      | Not regulated for transport                                       |
| 14.3 Transport hazard class (-es) | Not applicable  |
| 14.4 Packing group                | Not applicable  |
| 14.5 Environmental hazards        | Not considered environmentally hazardous based on available data. |
| 14.6 Special precautions for user | No data available   |

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#### Classification for SEA transport (IMO-IMDG)

|                              |                              |   |
|------------------------------|------------------------------|---|
| 14.1                         | UN number or ID number       | Not applicable  |
| 14.2                         | UN proper shipping name      | Not regulated for transport                                 |
| 14.3                         | Transport hazard class (-es) | Not applicable  |
| 14.4                         | Packing group                | Not applicable  |
| 14.5                         | Environmental hazards        | Not considered as marine pollutant based on available data. |
| 14.6                         | Special precautions for user | No data available   |
| 14.7                         | Maritime transport in bulk   | Consult IMO regulations before transporting ocean bulk      |
| according to IMO instruments |                              |   |

#### Classification for AIR transport (IATA/ICAO)

|      |                              |                             |
|------|------------------------------|-----------------------------|
| 14.1 | UN number or ID number       | Not applicable              |
| 14.2 | UN proper shipping name      | Not regulated for transport |
| 14.3 | Transport hazard class (-es) | Not applicable              |
| 14.4 | Packing group                | Not applicable              |
| 14.5 | Environmental hazards        | Not applicable              |
| 14.6 | Special precautions for user | No data available           |

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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### 15 Regulatory Information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### REACH Regulation (EC) No 1907/2006

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No.1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct. Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either registered, or are exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).

**Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.**

Listed in Regulation: Not applicable

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

### 16 Other informations

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008

This product is not classified as dangerous according to EC criteria.

#### Revision

Identification Number: 1366726 / A670 / Issue Date: 12.09.2022 / Version: 5.0

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

|               |   |   |
|---------------|---|---|
| GB EH40       | : | UK. EH40 WEL – Workplace Exposure Limits  |
| GB EH40 / TWA | : | Long-term exposure limit (8-hour TWA reference period)  |
| ADN           | : | European Agreement concerning the international Carriage of Dangerous Goods by Inland Waterways |
| ADR           | : | Agreement concerning the International Carriage of Dangerous Goods by Road                      |
| AIIC          | : | Australian Inventory of Industrial Chemical   |
| ASTM          | : | American Society for the Testing of Materials   |
| bw            | : | Body weight   |

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|           |   |  |
|-----------|---|--|
| CLP       | : | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  |
| CMR       | : | Carcinogen, Mutagen or Reproductive Toxicant   |
| DIN       | : | Standard of the German Institute for Standardisation   |
| DSL       | : | Domestic Substances List (Canada)  |
| ECHA      | : | European Chemicals Agency  |
| EC-Number | : | European Community number  |
| ECx       | : | Concentration associated with x% response  |
| ELx       | : | Loading rate associated with x% response   |
| EmS       | : | Emergency Schedule   |
| ENCS      | : | Existing and New Chemical Substances (Japan)   |
| ErCx      | : | Concentration associated with x% growth rate response  |
| GHS       | : | Globally Harmonized System   |
| GLP       | : | Good Laboratory Practice   |
| IARC      | : | International Agency for Research on Cancer  |
| IATA      | : | International Air Transport Association  |
| IBC       | : | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  |
| IC50      | : | Half maximal inhibitory concentration  |
| ICAO      | : | International Civil Aviation Organization  |
| IECSC     | : | Inventory of Existing Chemical Substances in China   |
| IMDG      | : | International Maritime Dangerous Goods   |
| IMO       | : | International Maritime Organization  |
| ISHL      | : | Industrial Safety and Health Law (Japan)   |
| ISO       | : | International Organisation for Standardization   |
| KECI      | : | Korea Existing Chemicals Inventory   |
| LC50      | : | Lethal Concentration to 50% of a test population   |
| LD50      | : | Lethal Dose to 50% of a test population (Median Lethal Dose)   |
| MARPOL    | : | International Convention for the Prevention of Pollution from Ships  |
| n.o.s.    | : | Not Otherwise Specified  |
| NO(A)EC   | : | No Observed (Adverse) Effect Concentration   |
| NO(A)EL   | : | No Observed (Adverse) Effect Level   |
| NOELR     | : | No Observable Effect Loading Rate  |
| NZIoC     | : | New Zealand Inventory of Chemicals   |
| OECD      | : | Organization for Economic Co-operation and Development   |
| OPPTS     | : | Office of Chemical Safety and Pollution Prevention   |
| PBT       | : | Persistent, Bioaccumulative and Toxic substance  |
| PICCS     | : | Philippines Inventory of Chemicals and Chemical Substances   |
| (Q)SAR    | : | (Quantitative) Structure Activity Relationship   |
| REACH     | : | Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID       | : | Regulations concerning the International Carriage of Dangerous Goods by Rail   |
| SADT      | : | Self-Accelerating Decomposition Temperature  |
| SDS       | : | Safety Data Sheet  |
| SVHC      | : | Substances of Very High Concern  |
| TCSI      | : | Taiwan Chemical Substance Inventory  |
| TECI      | : | Thailand Existing Chemicals Inventory  |
| TRGS      | : | Technical Rule for Hazardous Substances  |

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|      |   |  |
|------|---|--|
| TSCA | : | Toxic Substances Control Act (United States) |
| UN   | : | United Nations                               |
| vPvB | : | Very Persistent and Very Bioaccumulative     |

#### 16.1 Additional information

##### Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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