

## MOLYKOTE(R) D PASTE

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 10.11.2015  |
| 1.5     | 20.03.2016     | 844052-00006 | Date of first issue: 26.11.2014 |

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

#### 1.1 Product identifier

Trade name : MOLYKOTE(R) D PASTE

Product code : 000000000001206605, 000000000001206605

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-  
stance/Mixture : Lubricants and lubricant additives

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

Company : Dow Corning Europe S.A.  
rue Jules Bordet - Parc Industriel - Zone C  
B-7180 Seneffe

Telephone : English Tel: +49 611237507  
Deutsch Tel: +49 611237500  
Français Tel: +32 64511149  
Italiano Tel: +32 64511170  
Español Tel: +32 64511163

E-mail address of person  
responsible for the SDS : sdseu@dowcorning.com

#### 1.4 Emergency telephone number

Dow Corning (Barry U.K. 24h) Tél: +44 1446732350  
Dow Corning (Wiesbaden 24h) Tél: +49 61122158  
Dow Corning (Seneffe 24h) Tel: +32 64 888240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

#### **Additional Labelling:**

EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

None known.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Inorganic and organic compounds  
in mineral oil

##### Hazardous components

| Chemical name                                             | CAS-No.<br>EC-No.<br>Registration number   | Classification                                             | Concentration<br>(% w/w) |
|-----------------------------------------------------------|--------------------------------------------|------------------------------------------------------------|--------------------------|
| Calcium hydroxide                                         | 1305-62-0<br>215-137-3                     | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE 3; H335 | >= 30 - < 50             |
| White mineral oil (petroleum)                             | 8042-47-5<br>232-455-8<br>01-2119487078-27 | Asp. Tox. 1; H304                                          | >= 20 - < 30             |
| Distillates (petroleum), hydrotreated heavy naphthenic    | 64742-52-5<br>265-155-0                    | Asp. Tox. 1; H304                                          | >= 1 - < 10              |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 64742-65-0<br>265-169-7                    | Asp. Tox. 1; H304                                          | >= 1 - < 10              |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Protection of first-aiders : No special precautions are necessary for first aid responders.

If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

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

None known.

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

Treatment : Treat symptomatically and supportively.

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### SECTION 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

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Metal oxides  
Carbon oxides  
Oxides of phosphorus  
Formaldehyde

#### 5.3 Advice for firefighters

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

Specific extinguishing methods : 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.

### SECTION 6: Accidental release measures

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

Personal precautions : Follow safe handling advice and personal protective equipment recommendations.

#### 6.2 Environmental precautions

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

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can

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be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. 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. 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.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- |                         |   |                                                                                                                                                                              |
|-------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures      | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.                                                                                                |
| Local/Total ventilation | : | Use only with adequate ventilation.                                                                                                                                          |
| Advice on safe handling | : | Handle in accordance with good industrial hygiene and safety practice.<br>Take care to prevent spills, waste and minimize release to the environment.                        |
| Hygiene measures        | : | Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. |

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

- |                                               |   |                                                                                                     |
|-----------------------------------------------|---|-----------------------------------------------------------------------------------------------------|
| Requirements for storage areas and containers | : | Keep in properly labelled containers. Store in accordance with the particular national regulations. |
| Advice on common storage                      | : | Do not store with the following product types:<br>Strong oxidizing agents                           |

### 7.3 Specific end use(s)

- |                 |   |                                                                                                                                               |
|-----------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Specific use(s) | : | These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. |
|-----------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------|---------|-------------------------------|--------------------|-------|
|------------|---------|-------------------------------|--------------------|-------|

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|                                      |                                                                                                                                                                                                                                                                                                                                                                                                      |              |         |            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|------------|
| Calcium hydroxide                    | 1305-62-0                                                                                                                                                                                                                                                                                                                                                                                            | TWA          | 5 mg/m3 | 91/322/EEC |
| Further information                  | Existing scientific data on health effects appear to be particularly limited, Indicative                                                                                                                                                                                                                                                                                                             |              |         |            |
|                                      |                                                                                                                                                                                                                                                                                                                                                                                                      | TWA          | 5 mg/m3 | GB EH40    |
| Further information                  | Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used                                                                                                                                                                                                                                                                                    |              |         |            |
| Paraffin waxes and Hydrocarbon waxes | 8002-74-2                                                                                                                                                                                                                                                                                                                                                                                            | TWA (Fumes)  | 2 mg/m3 | GB EH40    |
| Further information                  | The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown. |              |         |            |
|                                      |                                                                                                                                                                                                                                                                                                                                                                                                      | STEL (Fumes) | 6 mg/m3 | GB EH40    |
| Further information                  | The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown. |              |         |            |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name    | End Use   | Exposure routes | Potential health effects | Value   |
|-------------------|-----------|-----------------|--------------------------|---------|
| Calcium hydroxide | Workers   | Inhalation      | Acute local effects      | 4 mg/m3 |
|                   | Workers   | Inhalation      | Long-term local effects  | 1 mg/m3 |
|                   | Consumers | Inhalation      | Acute local effects      | 4 mg/m3 |
|                   | Consumers | Inhalation      | Long-term local effects  | 1 mg/m3 |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                                            | Environmental Compartment  | Value           |
|-----------------------------------------------------------|----------------------------|-----------------|
| Calcium hydroxide                                         | Fresh water                | 0.49 mg/l       |
|                                                           | Marine water               | 0.32 mg/l       |
|                                                           | Intermittent use/release   | 0.49 mg/l       |
|                                                           | Sewage treatment plant     | 3 mg/l          |
|                                                           | Soil                       | 1080 mg/kg      |
| Distillates (petroleum), solvent refined heavy naphthenic | Oral (Secondary Poisoning) | 9.33 mg/kg food |

## 8.2 Exposure controls

### Engineering measures

Processing may form hazardous compounds (see section 10).  
Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

### Personal protective equipment

Eye protection : Wear the following personal protective equipment:  
Safety glasses

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|                          |   |                                                                                                                                                                                 |
|--------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection          | : |                                                                                                                                                                                 |
| Remarks                  | : | Wash hands before breaks and at the end of workday.                                                                                                                             |
| Skin and body protection | : | Skin should be washed after contact.                                                                                                                                            |
| Respiratory protection   | : | Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. |
| Filter type              | : | Combined particulates and organic vapour type (A-P)                                                                                                                             |

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|                                         |   |                                         |
|-----------------------------------------|---|-----------------------------------------|
| Appearance                              | : | paste                                   |
| Colour                                  | : | off-white                               |
| Odour                                   | : | slight                                  |
| 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                             | : | Not applicable                          |
| Evaporation rate                        | : | Not applicable                          |
| Flammability (solid, gas)               | : | Not classified as a flammability hazard |
| Upper explosion limit                   | : | No data available                       |
| Lower explosion limit                   | : | No data available                       |
| Vapour pressure                         | : | Not applicable                          |
| Relative vapour density                 | : | No data available                       |
| Relative density                        | : | 1.27                                    |
| Solubility(ies)                         | : |                                         |
| Water solubility                        | : | No data available                       |
| Partition coefficient: n-octanol/water  | : | No data available                       |
| Auto-ignition temperature               | : | No data available                       |

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Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Molecular weight : No data available

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## SECTION 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

Hazardous reactions : Use at elevated temperatures may form highly hazardous compounds.  
Can react with strong oxidizing agents.  
Hazardous decomposition products will be formed at elevated temperatures.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

Thermal decomposition : Formaldehyde

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

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### **Components:**

#### **Calcium hydroxide:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 425  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,500 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

#### **White mineral oil (petroleum):**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Distillates (petroleum), hydrotreated heavy naphthenic:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

### **Skin corrosion/irritation**

Not classified based on available information.

#### **Product:**

Species: Rabbit  
Result: No skin irritation  
Remarks: Based on test data

#### **Components:**

##### **Calcium hydroxide:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Skin irritation

##### **White mineral oil (petroleum):**

Species: Rabbit  
Result: No skin irritation

##### **Distillates (petroleum), hydrotreated heavy naphthenic:**

Species: Rabbit  
Result: No skin irritation  
Remarks: Based on data from similar materials

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Species: Rabbit  
Result: No skin irritation  
Remarks: Based on data from similar materials

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

Not classified based on available information.

#### **Product:**

Species: Rabbit  
Result: No eye irritation  
Remarks: Based on test data

#### **Components:**

##### **Calcium hydroxide:**

Species: Rabbit

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Method: OECD Test Guideline 405  
Result: Irreversible effects on the eye

**White mineral oil (petroleum):**

Species: Rabbit  
Result: No eye irritation

**Distillates (petroleum), hydrotreated heavy naphthenic:**

Species: Rabbit  
Result: No eye irritation  
Remarks: Based on data from similar materials

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: No eye irritation  
Remarks: Based on data from similar materials

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**White mineral oil (petroleum):**

Test Type: Buehler Test  
Exposure routes: Skin contact  
Species: Guinea pig  
Result: negative

**Distillates (petroleum), hydrotreated heavy naphthenic:**

Test Type: Buehler Test  
Exposure routes: Skin contact  
Species: Guinea pig  
Result: negative  
Remarks: Based on data from similar materials

**Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Test Type: Buehler Test  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: negative  
Remarks: Based on data from similar materials

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### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Calcium hydroxide:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

#### White mineral oil (petroleum):

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

#### Distillates (petroleum), hydrotreated heavy naphthenic:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

### Carcinogenicity

Not classified based on available information.

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### **Components:**

#### **Calcium hydroxide:**

Species: Rat  
Application Route: Ingestion  
Exposure time: 104 weeks  
Result: negative  
Remarks: Based on data from similar materials

#### **White mineral oil (petroleum):**

Species: Rat  
Application Route: Ingestion  
Exposure time: 24 Months  
Result: negative

#### **Distillates (petroleum), hydrotreated heavy naphthenic:**

Species: Mouse  
Application Route: Skin contact  
Exposure time: 78 weeks  
Method: OECD Test Guideline 451  
Result: negative

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Species: Mouse  
Application Route: Skin contact  
Exposure time: 78 weeks  
Method: OECD Test Guideline 451  
Result: negative

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **Calcium hydroxide:**

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

#### **White mineral oil (petroleum):**

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Skin contact

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Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

### **Distillates (petroleum), hydrotreated heavy naphthenic:**

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Skin contact  
Result: negative  
Remarks: Based on data from similar materials

### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Skin contact  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

### **STOT - single exposure**

Not classified based on available information.

### **Components:**

#### **Calcium hydroxide:**

Assessment: May cause respiratory irritation.

Remarks: The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

### **STOT - repeated exposure**

Not classified based on available information.

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### Repeated dose toxicity

#### Components:

##### **White mineral oil (petroleum):**

Species: Rat  
LOAEL: > 160 mg/kg  
Application Route: Ingestion  
Exposure time: 90 Days

Species: Rat  
LOAEL: >= 1 mg/l  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 4 Weeks  
Method: OECD Test Guideline 412

##### **Distillates (petroleum), hydrotreated heavy naphthenic:**

Species: Rat  
NOAEL: > 0.98 mg/l  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 28 Days  
Remarks: Based on data from similar materials

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Species: Rabbit  
NOAEL: 1,000 mg/kg  
Application Route: Skin contact  
Exposure time: 4 Weeks  
Method: OECD Test Guideline 410  
Remarks: Based on data from similar materials

Species: Rat  
NOAEL: > 980 mg/m<sup>3</sup>  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 4 Weeks  
Remarks: Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

#### Components:

##### **White mineral oil (petroleum):**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

##### **Distillates (petroleum), hydrotreated heavy naphthenic:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

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The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **Calcium hydroxide:**

|                                                                        |   |                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : | LC50 (Gasterosteus aculeatus (threespine stickleback)): 457 mg/l<br>Exposure time: 96 h                                                                                                                                                                       |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): 49.1 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                                                                                                                                                        |
| Toxicity to algae                                                      | : | EC10 (Pseudokirchneriella subcapitata (green algae)): 79.22 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>EC50 (Pseudokirchneriella subcapitata (green algae)): 184.57 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to bacteria                                                   | : | EC50 : 300.4 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209                                                                                                                                                                                    |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 32 mg/l<br>Exposure time: 14 d                                                                                                                                                                                                                          |

##### **White mineral oil (petroleum):**

|                                                     |   |                                                                                                                          |
|-----------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203         |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                  |
| Toxicity to algae                                   | : | NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to fish (Chronic toxicity)                 | : | NOEC: 1,000 mg/l<br>Exposure time: 28 d                                                                                  |

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Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,000 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### **Distillates (petroleum), hydrotreated heavy naphthenic:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to bacteria : NOEC : > 1.93 mg/l  
Exposure time: 10 min  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials

### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to bacteria : NOEC : > 1.93 mg/l  
Exposure time: 10 min  
Method: DIN 38 412 Part 8  
Remarks: Based on data from similar materials

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### 12.2 Persistence and degradability

#### Components:

##### **White mineral oil (petroleum):**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d

##### **Distillates (petroleum), hydrotreated heavy naphthenic:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 - 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 - 8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : 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.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

#### The components of this product are reported in the following inventories:

KECI : All ingredients listed, exempt or notified.

REACH : All ingredients (pre-)registered or exempt.

AICS : All ingredients listed or exempt.

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|           |   |                                                                                                                                                                                                                                                    |
|-----------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IECSC     | : | All ingredients listed or exempt.                                                                                                                                                                                                                  |
| ENCS/ISHL | : | All components are listed on ENCS/ISHL or exempted from inventory listing.                                                                                                                                                                         |
| PICCS     | : | All ingredients listed or exempt.                                                                                                                                                                                                                  |
| DSL       | : | All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).                                                                                       |
| TSCA      | : | Clearance for manufacture, import, processing, or use of this product under the United States Toxic Substances Control Act (TSCA) is based on a low volume exemption (LVE) from the Inventory listing requirements of TSCA (40 CFR 723.50(c) (1)). |
| NZIoC     | : | All ingredients listed or exempt.                                                                                                                                                                                                                  |

### Additional regulatory information

9-Octadecenyl-13-docosenate 17673-56-2

TSCA clearance for manufacture, import, processing, or use of this product is based on a low volume exemption from the Inventory listing requirements of TSCA (40 CFR 723.50(c) (1)). For activities regulated by TSCA, the following conditions apply: The LVE substance contained in the product may only be used as a lubricant. The low volume exemption specifies that processors and industrial users of this product will control exposure by using pumping and application apparatus for transfer and use whenever possible, and will landfill spent product containers.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Full text of H-Statements

|      |   |                                               |
|------|---|-----------------------------------------------|
| H304 | : | May be fatal if swallowed and enters airways. |
| H315 | : | Causes skin irritation.                       |
| H318 | : | Causes serious eye damage.                    |
| H335 | : | May cause respiratory irritation.             |

### Full text of other abbreviations

|                  |   |                                                                                 |
|------------------|---|---------------------------------------------------------------------------------|
| Asp. Tox.        | : | Aspiration hazard                                                               |
| Eye Dam.         | : | Serious eye damage                                                              |
| Skin Irrit.      | : | Skin irritation                                                                 |
| STOT SE          | : | Specific target organ toxicity - single exposure                                |
| 91/322/EEC       | : | Europe. Commission Directive 91/322/EEC on establishing indicative limit values |
| GB EH40          | : | UK. EH40 WEL - Workplace Exposure Limits                                        |
| 91/322/EEC / TWA | : | Limit Value - eight hours                                                       |
| GB EH40 / TWA    | : | Long-term exposure limit (8-hour TWA reference period)                          |
| GB EH40 / STEL   | : | Short-term exposure limit (15-minute reference period)                          |

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; 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; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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