# MOLYKOTE(R) TP-42 PASTE



Version 2.2

Revision Date:

03/21/2017

SDS Number: 1711459-00007

Date of last issue: 11/21/2016 Date of first issue: 03/25/2015

**SECTION 1. IDENTIFICATION** 

Product name

: MOLYKOTE(R) TP-42 PASTE

Product code

000000000002209942

Manufacturer or supplier's details

Company name of supplier

: Dow Corning Corporation

Address

South Saginaw Road

Midland Michigan 48686

Telephone

(989) 496-6000

Emergency telephone

24 Hour Emergency Telephone: (989) 496-5900

CHEMTREC: (800) 424-9300

Recommended use of the chemical and restrictions on use

Recommended use

: Lubricants and lubricant additives

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

**GHS** label elements

Not a hazardous substance or mixture.

Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

Inorganic and organic compounds

Mixture

#### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Calcium hydroxide	1305-62-0	>= 32 -<= 44
White mineral oil (petroleum)	8042-47-5	>= 20 -<= 32
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>= 6 -<= 8
Distillates (petroleum), solvent refined heavy naphthenic	64741-96-4	>= 4 -<= 6
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	>= 1.8 -<= 2.6
Paraffin waxes and Hydrocarbon waxes	8002-74-2	>= 1.1 -<= 2.1
12-Hydroxy lithium stearate	7620-77-1	>= 1.1 -<= 1.6

CHEMPOINT 411 108TH AVE NE, SUITE 1050 BELLEVUE WA 98004 UNITED STATES

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## **SECTION 4. FIRST AID MEASURES**

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.

Most important symptoms and effects, both acute and

None known.

delayed

Protection of first-aiders

No special precautions are necessary for first aid responders.

Notes to physician

Treat symptomatically and supportively.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media

Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

Metal oxides Carbon oxides

Oxides of phosphorus

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances 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 fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Use personal protective equipment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures

Follow safe handling advice and personal protective

equipment recommendations.

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.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

For large spills, provide diking or other appropriate

containment to keep material from spreading. If diked material can 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.

#### **SECTION 7. HANDLING AND STORAGE**

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.

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage

Keep in properly labeled containers.

Store in accordance with the particular national regulations.

Materials to avoid

Do not store with the following product types:

Strong oxidizing agents

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Calcium hydroxide	1305-62-0	TWA	5 mg/m³	ACGIH
		TWA (total dust)	15 mg/m³	OSHA Z-1
		TWA (respir-	5 mg/m³	OSHA Z-1

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		able fraction)		
Aller Aller		TWA	5 mg/m³	NIOSH REL
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal-	5 mg/m³	ACGIH
		able fraction)		
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m³	NIOSH REL
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal-	5 mg/m³	ACGIH
		able fraction)		
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
Distillates (petroleum), solvent refined heavy naphthenic	64741-96-4	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal-	5 mg/m³	ACGIH
		able fraction)		
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m³	NIOSH REL
Distillates (petroleum), solvent- dewaxed heavy paraffinic	64742-65-0	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal-	5 mg/m³	ACGIH
		able fraction)		
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
Paraffin waxes and	8002-74-2	TWA	2 mg/m³	ACGIH
Hydrocarbon waxes		(Fumes)		
		TWA	2 mg/m³	NIOSH REL
		(Fumes)		
12-Hydroxy lithium stearate	7620-77-1	TWA	10 mg/m <sup>3</sup>	ACGIH

These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Calcium hydroxide

#### **Engineering measures**

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m3 - total dust, 5 mg/m3 - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m3 - respirable particles, 10 mg/m3 - inhalable particles.

Personal protective equipment

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.

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Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide

adequate protection.

Hand protection

Remarks

Wash hands before breaks and at the end of workday.

Eye protection

Wear the following personal protective equipment:

Safety glasses

Skin and body protection

Skin should be washed after contact.

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.

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may

require added precautions.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

paste

Color

white

Odor

none

Odor Threshold

: No data available

рН

Not applicable

Melting point/freezing point

No data available

Initial boiling point and boiling

range

Not applicable

Flash point

160 °C

Method: closed cup

Evaporation rate

: Not applicable

Flammability (solid, gas)

Not classified as a flammability hazard

Self-ignition

: The substance or mixture is not classified as pyrophoric. The

substance or mixture is not classified as self heating.

Upper explosion limit / Upper

: No data available

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flammability limit

Lower explosion limit / Lower : No data available

flammability limit

Vapor pressure

Not applicable

Relative vapor density

No data available

Relative density

1.1

Solubility(ies)

Water solubility

No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature

No data available

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.

Molecular weight

No data available

Particle size

No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

Not classified as a reactivity hazard.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reac- :

tions

Can react with strong oxidizing agents.

Conditions to avoid

None known.

Incompatible materials

Oxidizing agents

Hazardous decomposition

No hazardous decomposition products are known.

products

## SECTION 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Skin contact Ingestion Eye contact

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#### **Acute toxicity**

Not classified based on available information.

#### Ingredients:

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 tox-

icity

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 inhala-

tion 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

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 inhala-

tion toxicity

Acute dermal toxicity

LD50 (Rabbit): > 5,000 mg/kg

Method: OECD Test Guideline 402

Distillates (petroleum), solvent refined 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

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Assessment: The substance or mixture has no acute inhala-

tion 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

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion 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

Paraffin waxes and Hydrocarbon waxes:

Acute oral toxicity

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

Method: OECD Test Guideline 420

Acute dermal toxicity

LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

12-Hydroxy lithium stearate:

Acute oral toxicity

LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Species: Rabbit

Result: No skin irritation

Remarks: On basis of test data.

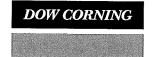
Ingredients:

Calcium hydroxide:

Species: Rabbit

Method: OECD Test Guideline 404

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Result: Skin irritation

#### White mineral oil (petroleum):

Species: Rabbit

Result: No skin irritation

## Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Rabbit

Result: No skin irritation

## Distillates (petroleum), solvent refined 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

## Paraffin waxes and Hydrocarbon waxes:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

### 12-Hydroxy lithium stearate:

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: On basis of test data.

#### **Ingredients:**

#### Calcium hydroxide:

Species: Rabbit

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

## White mineral oil (petroleum):

Species: Rabbit

Result: No eye irritation

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## Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Rabbit

Result: No eye irritation

## Distillates (petroleum), solvent refined heavy naphthenic:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Remarks: Based on data from similar materials

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

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Remarks: Based on data from similar materials

#### Paraffin waxes and Hydrocarbon waxes:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

## 12-Hydroxy lithium stearate:

Species: Rabbit

Result: No eye irritation

Remarks: Based on data from similar materials

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### Ingredients:

### White mineral oil (petroleum):

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig Result: negative

## Distillates (petroleum), hydrotreated heavy naphthenic:

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig Result: negative

## Distillates (petroleum), solvent refined heavy naphthenic:

Test Type: Buehler Test

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Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Remarks: Based on data from similar materials

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

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Remarks: Based on data from similar materials

#### Paraffin waxes and Hydrocarbon waxes:

Test Type: Maximization Test Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

#### 12-Hydroxy lithium stearate:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

## Germ cell mutagenicity

Not classified based on available information.

## Ingredients:

## 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:

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Genotoxicity in vitro

Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

: Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

: Test Type: Chromosome aberration test in vitro

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

Distillates (petroleum), solvent refined heavy naphthenic:

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

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

Paraffin waxes and Hydrocarbon waxes:

Genotoxicity in vitro

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo

Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay)

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Species: Mouse

Application Route: Intraperitoneal injection Method: OECD Test Guideline 474

Result: negative

#### Carcinogenicity

Not classified based on available information.

#### Ingredients:

#### 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

Result: negative

## Distillates (petroleum), solvent refined heavy naphthenic:

Species: Mouse

Application Route: Skin contact Exposure time: 78 weeks

Method: OECD Test Guideline 451

Result: negative

Remarks: Based on data from similar materials

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

Species: Mouse

Application Route: Skin contact Exposure time: 78 weeks

Method: OECD Test Guideline 451

Result: negative

## Paraffin waxes and Hydrocarbon waxes:

Species: Rat

Application Route: Ingestion Exposure time: 2 Years Result: negative

**IARC** 

No ingredient of this product present at levels greater than or

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equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA** 

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

### Reproductive toxicity

Not classified based on available information.

### Ingredients:

Calcium hydroxide:

Effects on fetal development

Test Type: Embryo-fetal 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

Result: negative

Effects on fetal development

Test Type: Embryo-fetal 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 Method: OECD Test Guideline 421

Result: negative

Effects on fetal development

Test Type: Embryo-fetal development

Species: Rat

Application Route: Skin contact

Result: negative

Distillates (petroleum), solvent refined heavy naphthenic:

Effects on fertility

Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: Ingestion

Result: negative

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Remarks: Based on data from similar materials

Effects on fetal development

Test Type: Embryo-fetal development

Species: Rat

Application Route: Skin contact Method: OECD Test Guideline 414

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 fetal development

Test Type: Embryo-fetal development

Species: Rat

Application Route: Skin contact Method: OECD Test Guideline 414

Result: negative

Remarks: Based on data from similar materials

Paraffin waxes and Hydrocarbon waxes:

Effects on fertility

: Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: Ingestion

Result: negative

Effects on fetal development

Test Type: Embryo-fetal development

Species: Rat

Application Route: Skin contact

Result: negative

STOT-single exposure

Not classified based on available information.

**Ingredients:** 

Calcium hydroxide:

Assessment: May cause respiratory irritation.

Remarks: These substance(s) are inextricably bound in the product and therefore do not contrib-

ute to a dust inhalation hazard.

STOT-repeated exposure

Not classified based on available information.

Ingredients:

12-Hydroxy lithium stearate:

Routes of exposure: Ingestion

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Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

### Repeated dose toxicity

#### Ingredients:

## 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

## Distillates (petroleum), solvent refined heavy naphthenic:

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/m3

Application Route: inhalation (dust/mist/fume)

Exposure time: 4 Weeks

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

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## Paraffin waxes and Hydrocarbon waxes:

Species: Rat

NOAEL: > 2,000 mg/kg Application Route: Skin contact Exposure time: 13 Weeks

Method: OECD Test Guideline 411

## 12-Hydroxy lithium stearate:

Species: Rat NOAEL: > 88 mg/kg

Application Route: Ingestion Exposure time: 90 Days

#### **Aspiration toxicity**

Not classified based on available information.

#### Ingredients:

### 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:

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**

#### **Ecotoxicity**

## Ingredients:

#### Calcium hydroxide:

Toxicity to fish

: LC50 (Gasterosteus aculeatus (threespine stickleback)): 457

ma/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 49.1 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae

: EC10 (Pseudokirchneriella subcapitata (green algae)): 79.22

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

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EC50 (Pseudokirchneriella subcapitata (green algae)): 184.57

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC: 32 mg/l Exposure time: 14 d

Toxicity to microorganisms

EC50: 300.4 mg/l Exposure time: 3 h

Method: OECD Test Guideline 209

White mineral oil (petroleum):

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae

NOEC (Pseudokirchneriella subcapitata (green algae)): 100

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l

Exposure time: 28 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 1,000 mg/l

Exposure time: 21 d

Distillates (petroleum), hydrotreated heavy naphthenic:

Toxicity to fish

LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Toxicity to algae

EL50 (Pseudokirchneriella subcapitata (green algae)): > 100

ma/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): 100

mg/l

Exposure time: 72 h

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Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 21 d

Test substance: Water Accommodated Fraction

Toxicity to microorganisms

NOEC: >= 1.93 mg/l Exposure time: 10 min

Distillates (petroleum), solvent refined 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

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 daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

Toxicity to microorganisms

NOEC: > 1.93 mg/l Exposure time: 10 min Method: DIN 38 412 Part 8

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

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Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

Toxicity to microorganisms

NOEC: > 1.93 mg/l Exposure time: 10 min Method: DIN 38 412 Part 8

Remarks: Based on data from similar materials

Paraffin waxes and Hydrocarbon waxes:

Toxicity to fish

LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

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

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 21 d

12-Hydroxy lithium stearate:

Toxicity to fish

LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae

NOELR (Pseudokirchneriella subcapitata (green algae)): >

100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Persistence and degradability

Ingredients:

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: 31 % Exposure time: 28 d

Method: OECD Test Guideline 301F

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Distillates (petroleum), solvent refined 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

Paraffin waxes and Hydrocarbon waxes:

Biodegradability

Result: Not readily biodegradable.

Biodegradation: 31 % Exposure time: 28 d

12-Hydroxy lithium stearate:

Biodegradability

Result: Readily biodegradable.

Biodegradation: 78 % Exposure time: 28 d

Method: OECD Test Guideline 301C

Bioaccumulative potential

Ingredients:

Paraffin waxes and Hydrocarbon waxes:

Partition coefficient: n-

octanol/water

: log Pow: 5.3 - 6.7

Mobility in soil

No data available

Other adverse effects

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS** 

Disposal methods

Resource Conservation and

Recovery Act (RCRA)

This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded

in its purchased form.

Waste from residues

Dispose of in accordance with local regulations.

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**

#### International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

#### **SECTION 15. REGULATORY INFORMATION**

## **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

: No SARA Hazards

**SARA 313** 

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **US State Regulations**

## Pennsylvania Right To Know

Calcium hydroxide	1305-62-0
White mineral oil (petroleum)	8042-47 <b>-</b> 5
Polybutene	9003-29-6
Tricalcium Phosphate, Hydrated	1306-06-5
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), solvent refined heavy naphthenic	64741-96-4
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
Paraffin waxes and Hydrocarbon waxes	8002-74-2
I didilli waxes and riyaroodi bon maxoo	

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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#### California List of Hazardous Substances

Calcium hydroxide	1305-62-0
White mineral oil (petroleum)	8042-47-5
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), solvent refined heavy naphthenic	64741-96-4
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
Paraffin waxes and Hydrocarbon waxes	8002-74-2

## California Permissible Exposure Limits for Chemical Contaminants

Calcium hydroxide	1305-62-0
White mineral oil (petroleum)	8042-47-5
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Distillates (petroleum), solvent refined heavy naphthen	ic 64741-96-4
Distillates (petroleum), solvent-dewaxed heavy paraffir	nic 64742-65-0
Paraffin waxes and Hydrocarbon waxes	8002-74-2

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

**KECI** 

: All ingredients listed, exempt or notified.

TCSI

All ingredients listed or exempt.

**REACH** 

For purchases from Dow Corning EU legal entities, all ingredients are currently pre/registered or exempt under REACH. Please refer to section 1 for recommended uses. For purchases from non-EU Dow Corning legal entities with the intention to export into EEA please contact your DC

representative/local office.

AICS

: All ingredients listed or exempt.

**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

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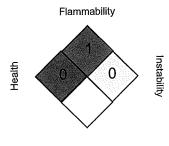
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this product will control exposure by using pumping and application apparatus for transfer and use whenever possible, and will landfill spent product containers.

## **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA:



Special hazard.

#### HMIS® IV:

HEALTH	/ 0
FLAMMABILITY	1
PHYSICAL HAZARD	

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH

NIOSH REL

USA. ACGIH Threshold Limit Values (TLV)USA. NIOSH Recommended Exposure Limits

OSHA Z-1

: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA

8-hour, time-weighted average

NIOSH REL / TWA

Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST

STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA Z-1 / TWA

8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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

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50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Revision Date

03/21/2017

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.

US / Z8