

# 2000®

 Version
 Revision Date:
 SDS Number:
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 7.0
 12/21/2015
 115162-00011
 Date of first issue: 05/12/2015

#### **SECTION 1. IDENTIFICATION**

Product name : 2000®

SDS-Identcode : 294G

Manufacturer or supplier's details

Company name of supplier : Bestolife Corporation

Address : 2777 N. Stemmons Frwy Ste 1800

Dallas TX 75207,

Telephone : 855-243-9164/972-865-8961

Telefax : 214-631-3047

Emergency telephone : CHEMTREC U.S.: 800-424-9300, International 703-527-3887

(24-hours/7 days)

E-mail address : www.bestolife.com

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use

Thread Compound (Pipe Dope) and Jacking grease for use in

Offshore industries

Mining, (without offshore industries)

Restrictions on use : Do not use on oxygen lines or in oxygen enriched

atmospheres.

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Eye irritation : Category 2A

**GHS** label elements

Hazard pictograms

 $\Diamond$ 

Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:** 

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.





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Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### **Hazardous ingredients**

| Chemical name                                     | CAS-No.    | Concentration (% w/w) |
|---|------------|-----------------------|
| Distillates (petroleum), hydrotreated heavy naph- | 64742-52-5 | >= 30 - < 50          |
| thenic  |            |                       |
| Graphite  | 7782-42-5  | >= 20 - < 30          |
| Talc  | 14807-96-6 | >= 5 - < 10           |
| Copper metal powder                               | 7440-50-8  | >= 1 - < 5            |
| Calcium oxide                                     | 1305-78-8  | >= 1 - < 5            |
| Dolomite  | 16389-88-1 | >= 1 - < 5            |
| 12-Hydroxy lithium stearate                       | 7620-77-1  | >= 1 - < 5            |
| Quartz  | 14808-60-7 | >= 1 - < 5            |

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

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes.

Get medical attention. Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention.

If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms : Causes serious eye irritation.



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and effects, both acute and

delayed

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment

when the potential for exposure exists.

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

: Carbon oxides

Fluorine compounds

Metal oxides Silicon oxides

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

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

: Use personal protective equipment.

Follow safe handling advice and personal protective equip-

ment 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

Sweep up or vacuum up spillage and collect in suitable con-

tainer for disposal.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items



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employed in the cleanup of releases. You will need to deter-

mine 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.

Advice on safe handling : Do not get on skin or clothing.

Do not swallow. Do not get in eyes.

Handle in accordance with good industrial hygiene and safety

practice.

Keep away from water. Protect from moisture.

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<br>(Form of<br>exposure) | Control parameters / Permissible concentration | Basis     |
|--|------------|-------------------------------------|--|-----------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | TWA (Mist)                          | 5 mg/m3  | OSHA Z-1  |
|  |            | TWA (Inhal-<br>able fraction)       | 5 mg/m3  | ACGIH     |
|  |            | TWA (Mist)                          | 5 mg/m3  | NIOSH REL |
|  |            | ST (Mist)                           | 10 mg/m3                                       | NIOSH REL |
| Graphite   | 7782-42-5  | TWA (Res-<br>pirable)               | 2.5 mg/m3                                      | NIOSH REL |
|  |            | TWA (Respirable fraction)           | 2 mg/m3  | ACGIH     |
|  |            | TWA (Dust)                          | 15 Million<br>particles per cubic<br>foot      | OSHA Z-3  |
| Talc   | 14807-96-6 | TWA (Dust)                          | 20 Million<br>particles per cubic<br>foot      | OSHA Z-3  |
|  |            | TWA (Respirable)                    | 2 mg/m3  | NIOSH REL |



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|                             |            | TWA (Respirable fraction)           | 2 mg/m3                 | ACGIH     |
|-----------------------------|------------|-------------------------------------|-------------------------|-----------|
| Copper metal powder         | 7440-50-8  | TWA (Dust and mist)                 | 1 mg/m3<br>(Copper)     | ACGIH     |
|                             |            | TWA<br>(Fumes)                      | 0.2 mg/m3<br>(Copper)   | ACGIH     |
|                             |            | TWA (Dust)                          | 1 mg/m3<br>(Copper)     | NIOSH REL |
|                             |            | TWA (Mist)                          | 1 mg/m3<br>(Copper)     | NIOSH REL |
|                             |            | TWA (dusts and mists)               | 1 mg/m3<br>(Copper)     | OSHA Z-1  |
|                             |            | TWA<br>(Fumes)                      | 0.1 mg/m3<br>(Copper)   | OSHA Z-1  |
| Calcium oxide               | 1305-78-8  | TWA                                 | 2 mg/m3                 | ACGIH     |
|                             |            | TWA                                 | 2 mg/m3                 | NIOSH REL |
|                             |            | TWA                                 | 5 mg/m3                 | OSHA Z-1  |
| Dolomite                    | 16389-88-1 | TWA (Respirable)                    | 5 mg/m3                 | NIOSH REL |
|                             |            | TWA (total)                         | 10 mg/m3                | NIOSH REL |
| 12-Hydroxy lithium stearate | 7620-77-1  | TWA                                 | 10 mg/m3                | ACGIH     |
| Quartz                      | 14808-60-7 | TWA (total dust)                    | 30 mg/m3<br>/ %SiO2+2   | OSHA Z-3  |
|                             |            | TWA (respirable)                    | 10 mg/m3<br>/ %SiO2+2   | OSHA Z-3  |
|                             |            | TWA (respirable)                    | 250 mppcf<br>/ %SiO2+5  | OSHA Z-3  |
|                             |            | TWA (Res-<br>pirable frac-<br>tion) | 0.025 mg/m3<br>(Silica) | ACGIH     |
|                             |            | TWA (Res-<br>pirable dust)          | 0.05 mg/m3<br>(Silica)  | NIOSH REL |

#### Occupational exposure limits of decomposition products

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

#### **Engineering measures**

Processing may form hazardous compounds (see section

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 - respir-





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able 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. 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

Material : Impervious gloves

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before

breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:

Safety goggles

Skin and body protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

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.

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

Appearance : Viscous semi-solid

Color : black, copper

Odor : Petroleum

Odor Threshold : No data available



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pH : Not applicable (not an aqueous solution)

Melting point/freezing point : No data available

Initial boiling point and boiling

range

: No data available

Flash point : >= 200 °C

Method: ASTM D 92, Cleveland open cup

Distillates (petroleum), hydrotreated heavy naphthenic

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : 1.3

Solubility(ies)

Water solubility : negligible

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Flow time : No data available

Explosive properties : Not explosive

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

Molecular weight : 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.

Hazardous decomposition products will be formed upon

contact with water or humid air.



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Conditions to avoid : Exposure to moisture.

Incompatible materials : Oxidizing agents

Water

Hazardous decomposition products

Contact with water or hu- : Cal

mid air

: Calcium hydroxide

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Skin contact Ingestion Eye contact

# **Acute toxicity**

Not classified based on available information.

#### **Ingredients:**

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 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

Graphite:

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

Method: OECD Test Guideline 401

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

icity

Acute inhalation toxicity : LC50 (Rat): > 2 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

Talc:

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

Remarks: Based on data from similar materials



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Copper metal powder:

Acute oral toxicity : LD50 (Rat): > 2,500 mg/kg

Method: OECD Test Guideline 423

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

icity

Acute inhalation toxicity : LC50 (Rat): > 5.11 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 436

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Calcium oxide:

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

**Dolomite:** 

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

Method: OECD Test Guideline 420

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

icity

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on data from similar materials

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

12-Hydroxy lithium stearate:

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

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

icity



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Quartz:

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

#### Skin corrosion/irritation

Not classified based on available information.

#### **Ingredients:**

## Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

**Graphite:** 

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Talc:

Species: Rabbit

Result: No skin irritation

#### Copper metal powder:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

# Calcium oxide:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

Remarks: Based on data from similar materials

#### **Dolomite:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Remarks: Based on data from similar materials

#### 12-Hydroxy lithium stearate:

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

#### Serious eye damage/eye irritation

Causes serious eye irritation.

# Ingredients:

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

Species: Rabbit

Result: No eye irritation

Remarks: Based on data from similar materials

**Graphite:**Species: Rabbit



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Result: No eye irritation

Talc:

Species: Rabbit Result: No eye irritation

Copper metal powder:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Calcium oxide: Species: Rabbit

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

**Dolomite:** Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Remarks: Based on data from similar materials

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:

Distillates (petroleum), hydrotreated heavy naphthenic:

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig Result: negative

Remarks: Based on data from similar materials

**Graphite:** 

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse Result: negative

Talc:

Routes of exposure: Skin contact

Species: Humans Result: negative

Copper metal powder:

Test Type: Maximization Test Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406



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Result: negative

**Dolomite:** 

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

Remarks: Based on data from similar materials

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:

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

**Graphite:** 

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Talc:

Genotoxicity in vitro : Test Type: DNA damage and repair, unscheduled DNA syn-

thesis in mammalian cells (in vitro)

Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro

Species: Rat

**Application Route: Ingestion** 

Result: negative

Copper metal powder:

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)



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Species: Mouse

**Application Route: Ingestion** 

Method: Directive 67/548/EEC, Annex V, B.12.

Result: negative

Remarks: Based on data from similar materials

Calcium oxide:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

**Dolomite:** 

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

# Carcinogenicity

Not classified based on available information.

**Product:** 

Carcinogenicity - Assess-

ment

: Petroleum distillates have been classified as not carcinogenic

based on DMSO extract content < 3% (Regulation (EC)

1272/2008, Annex VI, Part 3, Note L).

#### Ingredients:

# Distillates (petroleum), hydrotreated heavy naphthenic:

Species: Mouse

Application Route: Skin contact Exposure time: 78 weeks

Method: OECD Test Guideline 451

Result: negative

Talc:

Species: Mouse

Application Route: inhalation (dust/mist/fume)

Exposure time: 2 Years

Result: negative

Calcium oxide:

Species: Rat

Application Route: Ingestion Exposure time: 104 weeks

Result: negative

Remarks: Based on data from similar materials

Quartz:

Species: Humans

Application Route: inhalation (dust/mist/fume)

Result: positive

Remarks: IARC (International Agency for Research on Cancer)

The substance is inextricably bound in the product and therefore does not contribute to a dust

inhalation hazard.



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Carcinogenicity - Assess-

ment

: Positive evidence from human epidemiological studies (inhala-

tion)

IARC Group 1: Carcinogenic to humans

Quartz 14808-60-7

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP Known to be human carcinogen

Quartz 14808-60-7

#### Reproductive toxicity

Not classified based on available information.

#### **Ingredients:**

**Graphite:** 

Effects on fertility : Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion

Method: OECD Test Guideline 422

Result: negative

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Talc:

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion

Result: negative

Copper metal powder:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rabbit

Application Route: Ingestion

Result: negative

Calcium oxide:

Effects on fetal development : Test Type: Embryo-fetal development

Species: Mouse



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Application Route: Ingestion
Method: OECD Test Guideline 414

Result: negative

**Dolomite:** 

Effects on fertility : Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Remarks: Based on data from similar materials

#### STOT-single exposure

Not classified based on available information.

# Ingredients: Calcium oxide:

Assessment: May cause respiratory irritation.

# STOT-repeated exposure

Not classified based on available information.

#### **Ingredients:**

#### 12-Hydroxy lithium stearate:

Routes of exposure: Ingestion

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

bw or less.

#### Quartz:

Routes of exposure: inhalation (dust/mist/fume)

Target Organs: Lungs

Assessment: Shown to produce significant health effects in animals at concentrations of 0.02

mg/l/6h/d or less.

#### Repeated dose toxicity

#### Ingredients:

#### 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



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**Graphite:**Species: Rat
NOAEL: 12 mg/m3

Application Route: inhalation (dust/mist/fume)

Exposure time: 28 Days

Method: OECD Test Guideline 412

Copper metal powder:

Species: Rat

NOAEL: >= 2 mg/m3

Application Route: inhalation (dust/mist/fume)

Exposure time: 28 Days

**Dolomite:** Species: Mouse NOAEL: 1,300 mg/kg

Application Route: Ingestion Exposure time: 28 Days

Remarks: Based on data from similar materials

12-Hydroxy lithium stearate:

Species: Rat NOAEL: > 88 mg/kg

Application Route: Ingestion Exposure time: 90 Days

Quartz:

Species: Humans LOAEL: 0.053 mg/m3

Application Route: inhalation (dust/mist/fume)

Remarks: The substance is inextricably bound in the product and therefore does not contribute

to a dust inhalation hazard.

**Aspiration toxicity** 

Not classified based on available information.

#### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

**Product:** 

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,064,120

mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 15,470 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 30,940 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202



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Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 11,267

mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

NOEC (Selenastrum capricornutum (green algae)): 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Ingredients:

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 daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

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

Exposure time: 21 d

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

**Graphite:** 

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 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 : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to bacteria : EC50: > 1,012.5 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Talc:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100,000 mg/l



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Exposure time: 24 h

Copper metal powder:

Toxicity to fish  $LC50: > 10 - 100 \mu g/I$ 

Exposure time: 96 h

M-Factor (Acute aquatic tox-

icity)

: 10

Toxicity to fish (Chronic tox-

icity)

: NOEC: > 1 - 10 μg/l

M-Factor (Chronic aquatic

toxicity)

: 10

Calcium oxide:

Toxicity to fish : LC50 (Gasterosteus aculeatus (threespine stickleback)): 457

mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

: LC50: 158 mg/l Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 184.57

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 48

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-

NOEC: 32 mg/l Exposure time: 12 d

ic toxicity)

Remarks: Based on data from similar materials

Toxicity to bacteria : EC50: 300.4 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Remarks: Based on data from similar materials

**Dolomite:** 

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 16.6 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: No toxicity at the limit of solubility.

Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 16.6 mg/l

Exposure time: 48 h



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Method: OECD Test Guideline 202

Remarks: No toxicity at the limit of solubility.

Based on data from similar materials

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): 14 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

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

Quartz:

**Ecotoxicology Assessment** 

Acute aquatic toxicity : No toxicity at the limit of solubility.

Chronic aquatic toxicity : No toxicity at the limit of solubility.

Persistence and degradability

**Product:** 

Biodegradability : Result: Readily biodegradable.

Ingredients:

Distillates (petroleum), hydrotreated heavy naphthenic:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 2 - 4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

12-Hydroxy lithium stearate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 78 % Exposure time: 28 d

Method: OECD Test Guideline 301C

**Bioaccumulative potential** 

No data available

Mobility in soil

No data available





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Other adverse effects

No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulation

**UNRTDG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Copper metal powder, Antimony, dialkyl dithiocarbamate)

Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Copper metal powder, Antimony, dialkyl dithiocarbamate)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 956

aircraft)

Packing instruction (passen- : 956

ger aircraft)

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Copper metal powder, Antimony, dialkyl dithiocarbamate)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

#### **Domestic regulation**



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#### **49 CFR**

Not regulated as a dangerous good

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

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

## **CERCLA Reportable Quantity**

| Ingredients         | CAS-No.   | Component RQ | Calculated product RQ |
|---------------------|-----------|--------------|-----------------------|
|                     |           | (lbs)        | (lbs)                 |
| Copper metal powder | 7440-50-8 | 5000         | 132436                |

## SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Copper metal powder 7440-50-8 3.7754 %

#### **US State Regulations**

# Pennsylvania Right To Know

| Distillates (petroleum), hydrotreated heavy               | 64742-52-5 | 30 - 50 % |
|---|------------|-----------|
| naphthenic  | 7782-42-5  | 20 - 30 % |
| Graphite  |            |           |
| Polytetrafluoroethylene                                   | 9002-84-0  | 10 - 20 % |
| Talc  | 14807-96-6 | 5 - 10 %  |
| Copper metal powder                                       | 7440-50-8  | 1 - 5 %   |
| Calcium oxide   | 1305-78-8  | 1 - 5 %   |
| Quartz  | 14808-60-7 | 1 - 5 %   |
| Distillates (petroleum), hydrotreated light paraffinic    | 64742-55-8 | 0.1 - 1 % |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 64742-65-0 | 0.1 - 1 % |
| Distillates (petroleum), hydrotreated heavy paraffinic    | 64742-54-7 | 0.1 - 1 % |
| Distillates (petroleum), solvent-refined light paraffinic | 64741-89-5 | 0.1 - 1 % |
| aht To Know   |            |           |

## **New Jersey Right To Know**

| Distillates (petroleum), hydrotreated heavy | 64742-52-5 | 30 - 50 % |
|---|------------|-----------|
| naphthenic                                  |            |           |
| Graphite                                    | 7782-42-5  | 20 - 30 % |
| Polytetrafluoroethylene                     | 9002-84-0  | 10 - 20 % |
| Talc  | 14807-96-6 | 5 - 10 %  |



# 2000®

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|----------------|------------------------------|-----------------------------|---|---------|
|                | Copper m                     | etal powder                 | 7440-50-8   | 1 - 5 % |
|                | Calcium o                    | xide                        | 1305-78-8   | 1 - 5 % |
|                | Quartz                       |                             | 14808-60-7  | 1 - 5 % |

California Prop. 65 WARNING! This product contains a chemical known in the

State of California to cause cancer.

Quartz 14808-60-7

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

: All components of this product are on the Canadian DSL

**TSCA** : All chemical substances in this material are included on or

exempted from listing on the TSCA Inventory of Chemical

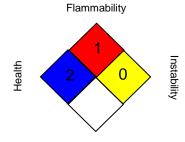
Substances.

: All ingredients listed or exempt.

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA:



Special hazard.

#### HMIS III:

| HEALTH          | 2 |
|-----------------|---|
| FLAMMABILITY    | 1 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

#### Full text of other abbreviations

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

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

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

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 OSHA Z-3 / TWA : 8-hour time weighted average



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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 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 : 12/21/2015

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

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US / Z8