

# SAFETY DATA SHEET



## PTC

Version 11.0      Revision Date: 11/03/2020      SDS Number: 118051-00018      Date of last issue: 05/06/2020  
Date of first issue: 05/18/2015

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### SECTION 1. IDENTIFICATION

Product name : PTC  
SDS-Identcode : 308G

#### Manufacturer or supplier's details

Company name of supplier : Bestolife Corporation  
Address : 2126 Vanco Drive  
Irving TX 75061,  
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 atmos-  
pheres.


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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization : Category 1

#### GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing dust, fume, gas, mist, vapors or spray.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical attention.  
P363 Wash contaminated clothing before reuse.

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### Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	>= 50 - < 70
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>= 30 - < 50
Graphite	7782-42-5	>= 10 - < 20
Dilithium azelate	38900-29-7	>= 5 - < 10
Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony	15991-76-1	>= 1 - < 5
Talc	14807-96-6	>= 1 - < 5
Antimony, dialkyl dithiocarbamate	15890-25-2	>= 1 - < 5
2,5-Bis(octyldithio)-1,3,4-thiadiazole	13539-13-4	>= 0.1 - < 1
Benzenesulphonic acid, propenated, calcium salts, overbased	68610-84-4	>= 0.1 - < 1
Quartz	14808-60-7	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice 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 soap and 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 : 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 : May cause an allergic skin reaction.

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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 (see section 8).  
Notes to physician : Treat symptomatically and supportively.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Unsuitable extinguishing media : None known.  
Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.  
Hazardous combustion products : Carbon oxides  
Metal oxides  
Fluorine compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
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.  
Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).  
Environmental precautions : Avoid release to the environment.  
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 container for disposal.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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### SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE

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**Advice on safe handling** : CONTROLS/PERSONAL PROTECTION section.  
 : For outdoor use only  
 : Do not get on skin or clothing.  
 : Avoid breathing dust, fume, gas, mist, vapors or spray.  
 : Do not swallow.  
 : Avoid contact with eyes.  
 : Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
 : 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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
Graphite	7782-42-5	ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Respirable)	2.5 mg/m <sup>3</sup>	NIOSH REL
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony	15991-76-1	TWA (Dust)	15 Million particles per cubic foot	OSHA Z-3
		TWA	0.5 mg/m <sup>3</sup> (antimony)	OSHA Z-1
		TWA	0.5 mg/m <sup>3</sup> (antimony)	ACGIH
Talc	14807-96-6	TWA	0.5 mg/m <sup>3</sup> (antimony)	NIOSH REL
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3

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		TWA (Respirable)	2 mg/m <sup>3</sup>	NIOSH REL
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
Antimony, dialkyl dithiocarbamate	15890-25-2	TWA	0.5 mg/m <sup>3</sup> (antimony)	OSHA Z-1
		TWA	0.5 mg/m <sup>3</sup> (antimony)	ACGIH
		TWA	0.5 mg/m <sup>3</sup> (antimony)	NIOSH REL
Quartz	14808-60-7	TWA (Respirable dust)	0.05 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable)	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO <sub>2</sub> +5	OSHA Z-3
		TWA (Respirable particulate matter)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH
		TWA (Respirable dust)	0.05 mg/m <sup>3</sup> (Silica)	NIOSH REL
		PEL (respirable)	0.05 mg/m <sup>3</sup>	OSHA CARC

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

II

Quartz

**Engineering measures** : 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/m<sup>3</sup> - total dust, 5 mg/m<sup>3</sup> - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m<sup>3</sup> - respirable particles, 10 mg/m<sup>3</sup> - 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

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- circumstance where air purifying respirators may not provide adequate protection.
- Hand protection  
Material : Chemical-resistant 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 glasses
- 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 : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.  
Contaminated work clothing should not be allowed out of the workplace.  
Wash contaminated clothing before re-use.
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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Viscous semi-solid
- Color : black
- Odor : Petroleum
- Odor Threshold : No data available
- 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 :  $\geq 392$  °F /  $\geq 200$  °C  
Method: ASTM D 92, Cleveland open cup  
Distillates (petroleum), hydrotreated heavy naphthenic
- Evaporation rate : Not applicable
- Flammability (solid, gas) : Not classified as a flammability hazard
- Upper explosion limit / Upper : No data available

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flammability limit

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Relative density : 1.1

Density : No data available

Solubility(ies)  
Water solubility : negligible

Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available  
Viscosity, kinematic : Not applicable

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

Particle size : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Can react with strong oxidizing agents.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Skin contact  
Ingestion  
Eye contact

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Components:****Distillates (petroleum), hydrotreated 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 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), 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

**Graphite:**

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



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Method: OECD Test Guideline 423  
 Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 2 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403

**Dilithium azelate:**

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg  
 Method: OECD Test Guideline 420  
 Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
 Method: OECD Test Guideline 402  
 Remarks: Based on data from similar materials

**Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony:**

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

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

**Talc:**

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

**Antimony, dialkyl dithiocarbamate:**

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

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

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 3.08 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
 Method: OECD Test Guideline 402  
 Assessment: The substance or mixture has no acute dermal toxicity

**Benzenesulphonic acid, propenated, calcium salts, overbased:**

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

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Method: OECD Test Guideline 401  
 Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 1.9 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403  
 Remarks: Based on data from similar materials

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

**Quartz:**

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

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

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

**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

**Dilithium azelate:**

Species : reconstructed human epidermis (RhE)  
 Method : OECD Test Guideline 439  
 Remarks : Based on data from similar materials

Result : No skin irritation

**Talc:**

Species : Rabbit  
 Result : No skin irritation

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Species : Rabbit  
 Method : OECD Test Guideline 404

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Result : Skin irritation

**Benzenesulphonic acid, propenated, calcium salts, overbased:**

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

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

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

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

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

**Graphite:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

**Dilithium azelate:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

**Talc:**

Species : Rabbit  
Result : No eye irritation

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

**Benzenesulphonic acid, propenated, calcium salts, overbased:**

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

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**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated 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

**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

**Dilithium azelate:**

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

**Talc:**

Routes of exposure : Skin contact  
Species : Humans  
Result : negative

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Test Type : Buehler Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : positive

Assessment : Probability or evidence of high skin sensitization rate in

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|| humans

|| **Benzenesulphonic acid, propenated, calcium salts, overbased:**

|| Test Type : Human repeat insult patch test (HRIPT)  
 || Routes of exposure : Skin contact  
 || Result : positive  
 || Remarks : Based on data from similar materials

|| Assessment : Probability or evidence of skin sensitization in humans

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

|| **Distillates (petroleum), hydrotreated heavy paraffinic:**

|| 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), 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)  
 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  
 Method: OECD Test Guideline 473

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**Dilithium azelate:**

Genotoxicity in vitro

- Result: negative
- : 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  
 Remarks: Based on data from similar materials
- Test Type: Chromosome aberration test in vitro  
 Method: OECD Test Guideline 473  
 Result: negative  
 Remarks: Based on data from similar materials

**Talc:**

Genotoxicity in vitro

- : Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
 Result: negative

Genotoxicity in vivo

- : Test Type: Chromosome aberration test in vitro  
 Species: Rat  
 Application Route: Ingestion  
 Result: negative

**Antimony, dialkyl dithiocarbamate:**

Genotoxicity in vitro

- : Test Type: Bacterial reverse mutation assay (AMES)  
 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: equivocal

**2,5-Bis(octylidithio)-1,3,4-thiadiazole:**

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  
 Remarks: Based on data from similar materials
- Test Type: Chromosome aberration test in vitro  
 Method: OECD Test Guideline 473  
 Result: negative  
 Remarks: Based on data from similar materials

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**Benzenesulphonic acid, propenated, calcium salts, overbased:**

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

Test Type: In vitro mammalian cell gene mutation test  
 Method: OECD Test Guideline 476  
 Result: negative  
 Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
 Method: OECD Test Guideline 473  
 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: Ingestion  
 Method: OECD Test Guideline 474  
 Result: negative  
 Remarks: Based on data from similar materials

**Carcinogenicity**

Not classified based on available information.

**Product:**

Carcinogenicity - Assessment : Petroleum distillates have been classified as not carcinogenic based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L).

**Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

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), hydrotreated heavy naphthenic:**

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

**Talc:**

Species : Mouse

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Application Route : inhalation (dust/mist/fume)  
Exposure time : 2 Years  
Result : negative

### Quartz:

Species : Humans  
Application Route : inhalation (dust/mist/fume)  
Result : positive  
Remarks : These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Carcinogenicity - Assessment : Positive evidence from human epidemiological studies (inhalation)

**IARC**      Group 1: Carcinogenic to humans  
Quartz      14808-60-7  
(Silica dust, crystalline)

**OSHA**      OSHA specifically regulated carcinogen  
Quartz      14808-60-7  
(crystalline silica)

**NTP**      Known to be human carcinogen  
Quartz      14808-60-7  
(Silica, Crystalline (Respirable Size))

### Reproductive toxicity

Not classified based on available information.

### Components:

#### Distillates (petroleum), hydrotreated 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

#### 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



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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

**Dilithium azelate:**

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

Effects on fetal development : Test Type: Reproduction/Developmental toxicity screening test  
 Species: Rat  
 Application Route: Skin contact  
 Result: negative  
 Remarks: Based on data from similar materials

**Talc:**

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

**Antimony, dialkyl dithiocarbamate:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
 Species: Rat  
 Application Route: Ingestion  
 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  
 Result: negative

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

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

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reproduction/developmental toxicity screening test  
 Species: Rat  
 Application Route: Ingestion  
 Method: OECD Test Guideline 422  
 Result: negative

**Benzenesulphonic acid, propenated, calcium salts, overbased:**

Effects on fertility : Test Type: One-generation reproduction toxicity study  
 Species: Rat  
 Application Route: Ingestion  
 Method: OECD Test Guideline 415  
 Result: negative  
 Remarks: Based on data from similar materials

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Components:****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****Components:****Distillates (petroleum), hydrotreated 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

**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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**Dilithium azelate:**

Species : Rat  
NOAEL : 1,089.75 mg/kg  
Application Route : Skin contact  
Exposure time : 28 Days  
Remarks : Based on data from similar materials

**Antimony, dialkyl dithiocarbamate:**

Species : Rat  
NOAEL :  $\geq 1,000$  mg/kg  
Application Route : Ingestion  
Exposure time : 54 Days

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Species : Rat  
NOAEL : 330 mg/kg  
Application Route : Ingestion  
Exposure time : 54 Days  
Method : OECD Test Guideline 422

**Benzenesulphonic acid, propenated, calcium salts, overbased:**

Species : Rat  
NOAEL :  $> 300$  mg/kg  
Application Route : Ingestion  
Exposure time : 29 Days  
Method : OECD Test Guideline 407  
Remarks : Based on data from similar materials

Species : Rat  
NOAEL :  $> 600$  mg/kg  
Application Route : Skin contact  
Exposure time : 28 Days  
Method : OECD Test Guideline 410  
Remarks : Based on data from similar materials

**Quartz:**

Species : Humans  
LOAEL :  $0.053$  mg/m<sup>3</sup>  
Application Route : inhalation (dust/mist/fume)  
Remarks : These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

**Aspiration toxicity**

Not classified based on available information.

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## SECTION 12. ECOLOGICAL INFORMATION

## Ecotoxicity

Components:**Distillates (petroleum), hydrotreated 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/aquatic plants : 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 (Chronic 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), 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/aquatic plants : 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 (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 10 mg/l  
 Exposure time: 21 d  
 Remarks: Based on data from similar materials
- Toxicity to microorganisms : NOEC: > 1.93 mg/l

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Exposure time: 10 min  
 Remarks: Based on data from similar materials

**Graphite:**

- Toxicity to fish : LL50 (Danio rerio (zebra fish)): > 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)): > 100 mg/l  
 Exposure time: 48 h  
 Test substance: Water Accommodated Fraction  
 Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/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  
 Test substance: Water Accommodated Fraction  
 Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50: > 1,012.5 mg/l  
 Exposure time: 3 h  
 Method: OECD Test Guideline 209

**Dilithium azelate:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 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 - 100 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202  
 Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l  
 Exposure time: 72 h  
 Remarks: Based on data from similar materials
- ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
 Exposure time: 72 h  
 Remarks: Based on data from similar materials

**Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony:**

- Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.02 mg/l

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aquatic invertebrates (Chronic toxicity)	Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
--	---

**Ecotoxicology Assessment**

Chronic aquatic toxicity	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
--------------------------	--

**Talc:**

Toxicity to fish	: LC50 (Brachydanio rerio (zebrafish)): > 100,000 mg/l Exposure time: 24 h
------------------	---

**Antimony, dialkyl dithiocarbamate:**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0.02 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
--	--

**Ecotoxicology Assessment**

Chronic aquatic toxicity	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
--------------------------	--

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203
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Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): 45 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
---	---

Toxicity to algae/aquatic plants	: LL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
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	NOELR (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
--	--

Toxicity to microorganisms	: EC50: > 1,000 mg/l Exposure time: 3 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 209
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**Benzenesulphonic acid, propenated, calcium salts, overbased:**

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- 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  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials
- NOELR (Pseudokirchneriella subcapitata (green algae)): 100 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials
- Toxicity to microorganisms : EC50: > 100 mg/l  
Exposure time: 8 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

### 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

##### Components:

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

- Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

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

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

##### **Dilithium azelate:**

- Biodegradability : Result: Readily biodegradable.

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Biodegradation: 83 %  
Exposure time: 30 d  
Method: OECD Test Guideline 301D  
Remarks: Based on data from similar materials

**Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

**Antimony, dialkyl dithiocarbamate:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 20 %  
Exposure time: 28 d

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**Benzenesulphonic acid, propenated, calcium salts, overbased:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301D  
Remarks: Based on data from similar materials

**Bioaccumulative potential****Components:****Dilithium azelate:**

Partition coefficient: n-  
octanol/water : log Pow: -3.53

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Partition coefficient: n-  
octanol/water : log Pow: > 6.5  
Method: OECD Test Guideline 117

**Benzenesulphonic acid, propenated, calcium salts, overbased:**

Partition coefficient: n-  
octanol/water : log Pow: > 4  
Remarks: Expert judgment

**Mobility in soil**

No data available

**Other adverse effects**

No data available



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**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 handling site for recycling or disposal.  
Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.  
If not otherwise specified: Dispose of as unused product.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony, 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.  
(Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony, Antimony, dialkyl dithiocarbamate)

Class : 9

Packing group : III

Labels : Miscellaneous

Packing instruction (cargo aircraft) : 956

Packing instruction (passenger aircraft) : 956

Environmentally hazardous : yes

**IMDG-Code**

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony, 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.

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**Domestic regulation****49 CFR**

UN/ID/NA number : UN 3077  
 Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
 (Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony, Antimony, dialkyl dithiocarbamate)  
 Class : 9  
 Packing group : III  
 Labels : CLASS 9  
 ERG Code : 171  
 Marine pollutant : yes(Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony, Antimony, dialkyl dithiocarbamate)  
 Remarks : Above applies only to containers over 119 gallons or 450 liters., Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION****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** : Respiratory or skin sensitization

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony	15991-76-1	>= 1 - < 5 %
Antimony, dialkyl dithiocarbamate	15890-25-2	>= 1 - < 5 %

**US State Regulations****Pennsylvania Right To Know**

	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
	Graphite	7782-42-5

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Hydroxystearate sebacate lithium complexes	68815-49-6
Dilithium azelate	38900-29-7
Polytetrafluoroethylene	9002-84-0
Water	7732-18-5
Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony	15991-76-1
Talc	14807-96-6
Antimony, dialkyl dithiocarbamate	15890-25-2
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3

### California Prop. 65

WARNING: This product can expose you to chemicals including Quartz, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California List of Hazardous Substances

Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Graphite	7782-42-5
Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony	15991-76-1
Talc	14807-96-6
Antimony, dialkyl dithiocarbamate	15890-25-2

### California Permissible Exposure Limits for Chemical Contaminants

Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5
Graphite	7782-42-5
Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony	15991-76-1
Talc	14807-96-6
Antimony, dialkyl dithiocarbamate	15890-25-2

### California Regulated Carcinogens

Quartz	14808-60-7
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### The ingredients of this product are reported in the following inventories:

- DSL : All components of this product are on the Canadian DSL
- TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
- AICS : All ingredients listed or exempt.

## SECTION 16. OTHER INFORMATION

### Further information

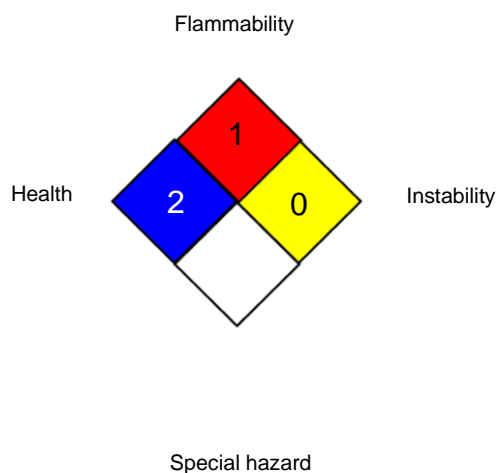
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### NFPA 704:



### HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

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 : USA. ACGIH Threshold Limit Values (TLV)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral 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 CARC / PEL : Permissible exposure limit (PEL)
- OSHA Z-1 / TWA : 8-hour time weighted average
- OSHA Z-3 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; 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 Pre-

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vention 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 Agency, <http://echa.europa.eu/>

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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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