

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking**

**1.1 Product identifier**

**Product Name**

• **DSV-12**

**Synonyms**

• Anti-Seize; Lubricant; Sealant; Thread Compound

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

**Relevant identified use(s)**

• Anti-Seize, Lubricant, Sealant, rotary joint compound

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

**Manufacturer**

• Topco Oilsite Products Ltd.  
Bay 7, 3401 - 19th Street N.E.  
Calgary, Alberta T2E 6S8  
Canada  
www.topcoilsite.com  
msds@topcoilsite.com

**Telephone (General)** • 403-219-0255

**1.4 Emergency telephone number**

**Manufacturer**

• 403-219-0255

**Poison & Drug Information Service (Alberta Health Services)**

• 1-800-332-1414

**Section 2: Hazards Identification**

**EU/EEC**

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

**2.1 Classification of the substance or mixture**

**CLP**

• Not classified

**2.2 Label Elements**

**CLP**

**Hazard statements** • No label element(s) required

**2.3 Other Hazards**

**CLP**

• According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.

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**UN GHS Revision 4**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Fourth Revised Edition

**2.1 Classification of the substance or mixture**

**UN GHS**

• Acute Toxicity Oral 5  
Skin Mild Irritation 3

## 2.2 Label elements

### UN GHS

#### **WARNING**

**Hazard statements** • May be harmful if swallowed  
Causes mild skin irritation

#### **Precautionary statements**

**Response** • Call a POISON CENTER/doctor if you feel unwell.  
If skin irritation occurs: Get medical advice/attention.

**Supplemental information** • 13.1 - 42.16 percent of this product consists of an ingredient of unknown toxicity.

## 2.3 Other hazards

### UN GHS

• According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous

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### **United States (US)**

According to: OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

OSHA HCS 2012 • Not classified

## 2.2 Label elements

### OSHA HCS 2012

**Hazard statements** • No label element(s) required

## 2.3 Other hazards

OSHA HCS 2012 • This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

### **Canada**

According to: WHMIS 2015

## 2.1 Classification of the substance or mixture

WHMIS 2015 • Not classified

## 2.2 Label elements

### WHMIS 2015

**Hazard statements** • No label element(s) required

#### **Precautionary statements**

## 2.3 Other hazards

### WHMIS 2015

• In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

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## **Section 3 - Composition/Information on Ingredients**

### 3.1 Substances

- Material does not meet the criteria of a substance.

### 3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	<b>CAS:</b> 64741-88-4 <b>EC Number:</b> 265-090-8 <b>EU Index:</b> 649-454-00-7	24.5% TO 31.5%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Skin-Rabbit LD50 • >2000 mg/kg	<b>EU CLP:</b> Annex VI, Table 3.1: Carc. 1B, H350 <b>UN GHS Revision 4:</b> Skin Irrit. 3; Asp. Tox. 2 <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Graphite	<b>CAS:</b> 7782-42-5 <b>EC Number:</b> 231-955-3	9.9% TO 20%	NDA	<b>EU CLP:</b> STOT RE 1 (Lungs / Inhl), H372 <b>UN GHS Revision 4:</b> STOT RE 1 (Lungs / Inhl) <b>OSHA HCS 2012:</b> Comb. Dust; STOT RE 1 (Lungs / Inhl) <b>WHMIS 2015:</b> Comb. Dust; STOT RE 1 (Lungs / Inhl)	NDA
Talc	<b>CAS:</b> 14807-96-6 <b>EC Number:</b> 238-877-9	0.6% TO 10%	NDA	<b>EU CLP:</b> STOT RE 1 (Lungs / Inhl), H372 <b>UN GHS Revision 4:</b> Skin Irrit. 3; STOT RE 1 (Lungs / Inhl) <b>OSHA HCS 2012:</b> STOT RE 1 (Lungs / Inhl) <b>WHMIS 2015:</b> STOT RE 1 (Lungs / Inhl)	NDA
Molybdenum sulfide	<b>CAS:</b> 1317-33-5 <b>EC Number:</b> 215-263-9	0.99% TO 10%	Inhalation-Rat LC50 • >2820 mg/m <sup>3</sup> 4 Hour(s)	<b>EU CLP:</b> Not Classified <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Carbon fiber	<b>CAS:</b> 308063-67-4	0% TO 9.98%	NDA	<b>EU CLP:</b> Not Classified <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Carbon (animal or vegetable origin)	<b>CAS:</b> 7440-44-0 <b>EC Number:</b> 231-153-3	0% TO 9.98%	NDA	<b>EU CLP:</b> Not Classified <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Thickener	<b>CAS:</b> 54326-11-3 <b>EINECS:</b> 259-105-7	2.1% TO 4.2%	NDA	<b>EU CLP:</b> Not Classified <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Chlorite	<b>CAS:</b> 1318-59-8 <b>EINECS:</b> 215-285-9	0.1% TO 3%	NDA	<b>EU CLP:</b> Not Classified <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Benzenesulfonic acid, dodecyl-, calcium salt	<b>CAS:</b> 26264-06-2 <b>EINECS:</b> 247-557-8	0.35% TO 1.75%	Ingestion/Oral-Rat LD50 • 1300 mg/kg	<b>EU CLP:</b> Acute Tox. 4, H302 <b>UN GHS Revision 4:</b> Acute Tox. 4 (orl); Aquatic Acute 2 <b>OSHA HCS 2012:</b> Acute Tox. 4 (orl) <b>WHMIS 2015:</b> Acute Tox. 4 (orl)	NDA

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	<b>CAS:</b> 68584-23-6 <b>EINECS:</b> 271-529-4	0.35% TO 1.75%	NDA	<b>EU CLP:</b> Not Classified <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Antimony, tris(dipentylcarbomodithioato-kappa-S,kappa-S')-, (OC-6-11)-	<b>CAS:</b> 15890-25-2 <b>EINECS:</b> 240-028-2	0.7% TO 1.4%	NDA	<b>EU CLP:</b> Not Classified <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Dolomite	<b>CAS:</b> 16389-88-1 <b>EINECS:</b> 240-440-2	0.05% TO 1%	NDA	<b>EU CLP:</b> Not Classified <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Sizing	NDA	0% TO 0.9%	NDA	<b>EU CLP:</b> Not Classified <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Crystalline silica	<b>CAS:</b> 14808-60-7 <b>EC Number:</b> 238-878-4	0.01% TO 0.5%	NDA	<b>EU CLP:</b> Carc. 1A, H350i; STOT RE 1, H372 <b>UN GHS Revision 4:</b> Carc. 1A; STOT RE 1 (Lungs / Inhl) <b>OSHA HCS 2012:</b> Carc. 1A; STOT RE 1 (Lungs / Inhl) <b>WHMIS 2015:</b> Carc. 1A; STOT RE 1 (Lungs / Inhl)	NDA
Carbonic acid, magnesium salt (1:1)	<b>CAS:</b> 546-93-0 <b>EC Number:</b> 208-915-9	0.01% TO 0.5%	Ingestion/Oral-Rat LD50 • 8000 mg/kg	<b>EU CLP:</b> Not Classified <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	NDA
Naphthenic acid, zinc salt	<b>CAS:</b> 12001-85-3 <b>EINECS:</b> 234-409-2	0% TO 0.35%	NDA	<b>EU CLP:</b> Eye Irrit. 2, H319; Aquatic Chronic 3, H412 <b>UN GHS Revision 4:</b> Acute Tox. 5 (orl); Skin Irrit. 3; Eye Irrit. 2; Aquatic Acute 3; Aquatic Chronic 3 <b>OSHA HCS 2012:</b> Eye Irrit. 2 <b>WHMIS 2015:</b> Eye Irrit. 2	NDA
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	<b>CAS:</b> 64742-65-0 <b>EC Number:</b> 265-169-7 <b>EU Index:</b> 649-474-00-6	N/A	Ingestion/Oral-Rat LD50 • >5000 mg/kg Skin-Rabbit LD50 • >5000 mg/kg Inhalation-Rat LC50 • >5 mg/L 4 Hour(s)	<b>EU CLP:</b> Annex VI, Table 3.1: Carc. 1B, H350 <b>UN GHS Revision 4:</b> Not Classified <b>OSHA HCS 2012:</b> Not Classified <b>WHMIS 2015:</b> Not Classified	this ingredient contains < 3% DMSO

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See Section 16 for full text of H-statements.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation** • Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.
- Skin** • In case of contact with substance, immediately flush skin with running water for at least 20 minutes.
- Eye** • In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.
- Ingestion** • Obtain medical attention immediately if ingested.

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

- Refer to Section 11 - Toxicological Information.

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

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.  
SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.

- Unsuitable Extinguishing Media**
- No data available

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

- Unusual Fire and Explosion Hazards**
- No data available

- Hazardous Combustion Products**
- Hazardous decomposition products formed under fire conditions: Carbon oxides, metal oxides.

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

## Section 6 - Accidental Release Measures

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

- Personal Precautions**
- Ventilate the area. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.
- Emergency Procedures**
- Keep unauthorized personnel away. Stay upwind.

### 6.2 Environmental precautions

- Avoid run off to waterways and sewers.

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

- Containment/Clean-up Measures**
- Stop leak if you can do it without risk.  
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.  
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

- Handling**
- Use only with adequate ventilation. Keep away from heat and ignition sources. Use good safety and industrial hygiene practices. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

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

- Storage**
- Keep container tightly closed. Store in a cool, dry, well-ventilated place.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Argentina	Australia	Canada Alberta	Canada British Columbia
Carbonic acid, magnesium salt (1:1) (546-93-0)	TWAs	Not established	Not established	10 mg/m3 TWA (containing no asbestos and <1% crystalline silica, inhalable dust, listed under Magnesite)	Not established	10 mg/m3 TWA (total dust, listed under Magnesite); 3 mg/m3 TWA (respirable fraction, listed under Magnesite)
Crystalline silica (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable particulate matter)	0.05 mg/m3 TWA [CMP] (respirable fraction)	0.1 mg/m3 TWA (respirable dust)	0.025 mg/m3 TWA (respirable particulate)	0.025 mg/m3 TWA (respirable)
Talc (14807-96-6)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)	2 mg/m3 TWA [CMP] (respirable fraction, particulate matter containing no asbestos and less than 1% crystalline silica)	2.5 mg/m3 TWA (containing no asbestos fibers)	2 mg/m3 TWA (respirable particulate)	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate)
Graphite	TWAs	2 mg/m3 TWA (all forms except graphite fibers, respirable particulate matter)	2 mg/m3 TWA [CMP] (all forms except fibers, respirable fraction)	3 mg/m3 TWA (containing no asbestos and <1% crystalline silica; all forms except fibres; natural and synthetic, respirable dust)	2 mg/m3 TWA (all forms except Graphite fibres, respirable)	2 mg/m3 TWA (all forms except Graphite fibres, respirable)
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut
Carbonic acid, magnesium salt (1:1) (546-93-0)	TWAs	Not established	10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica)	10 mg/m3 TWA (listed under Magnesite)	Not established	10 mg/m3 TWA (listed under Magnesite)
	STELs	Not established	Not established	20 mg/m3 STEL (listed under Magnesite)	Not established	20 mg/m3 STEL (listed under Magnesite)
Crystalline silica (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable particulate matter)	0.1 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable fraction, listed under Silica - crystalline)	0.025 mg/m3 TWA (respirable particulate matter)	0.05 mg/m3 TWA (respirable fraction, listed under Silica - crystalline)
Talc (14807-96-6)	TWAs	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter)	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)	2 mg/m3 TWA (respirable fraction)	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter)	2 mg/m3 TWA (respirable fraction)
Graphite	TWAs	2 mg/m3 TWA (all forms except Graphite fibers, respirable particulate matter)	2 mg/m3 TWA (all forms except graphite fibres)	2 mg/m3 TWA (natural, all forms, except Graphite fibres, respirable fraction)	2 mg/m3 TWA (all forms except Graphite fibers, respirable particulate matter)	2 mg/m3 TWA (natural, all forms, except Graphite fibres, respirable fraction)
	STELs	Not established	Not established	4 mg/m3 STEL (natural, all forms, except Graphite fibres, respirable fraction)	Not established	4 mg/m3 STEL (natural, all forms, except Graphite fibres, respirable fraction)
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	China

Carbonic acid, magnesium salt (1:1) (546-93-0)	TWAs	Not established	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust, listed under Magnesite)	Not established	Not established	Not established
Crystalline silica (14808-60-7)	STELs	Not established	Not established	Not established	Not established	2 mg/m3 STEL (containing 10 - 50% free SiO2, total dust); 1.4 mg/m3 STEL (containing 50 - 80% free SiO2, total dust); 1 mg/m3 STEL (containing >80% free SiO2, total dust); 1.4 mg/m3 STEL (containing 10 - 50% free SiO2, respirable dust); 0.6 mg/m3 STEL (containing 50 - 80% free SiO2, respirable dust); 0.4 mg/m3 STEL (containing >80% free SiO2, respirable dust)
	TWAs	0.10 mg/m3 TWA (designated substances regulation, respirable, listed under Silica, crystalline)	0.1 mg/m3 TWAEV (respirable dust)	0.05 mg/m3 TWA (respirable fraction, listed under Silica - crystalline (Trydimite removed))	300 particle/mL TWA (listed under Silica - Quartz, crystalline)	0.7 mg/m3 TWA (containing 50 - 80% free SiO2, total dust); 0.3 mg/m3 TWA (containing 50 - 80% free SiO2, respirable dust); 1 mg/m3 TWA (containing 10 - 50% free SiO2, total dust); 0.7 mg/m3 TWA (containing 10 - 50% free SiO2, respirable dust); 0.5 mg/m3 TWA (containing >80% free SiO2, total dust); 0.2 mg/m3 TWA (containing >80% free SiO2, respirable dust)
Dolomite (16389-88-1)	STELs	Not established	Not established	Not established	Not established	16 mg/m3 STEL (total dust); 8 mg/m3 STEL (respirable dust)
	TWAs	Not established	Not established	Not established	Not established	8 mg/m3 TWA (total dust); 4 mg/m3 TWA (respirable dust)
Talc (14807-96-6)	STELs	Not established	Not established	Not established	Not established	6 mg/m3 STEL (free SiO2 <10%, total dust); 2 mg/m3 STEL (free SiO2 <10%, respirable dust)
	TWAs	2 mg/m3 TWA (containing no Asbestos and <1% Crystalline silica, respirable)	3 mg/m3 TWAEV (respirable dust)	2 mg/m3 TWA (respirable fraction)	20 mppcf TWA	3 mg/m3 TWA (free SiO2 <10%, total dust); 1 mg/m3 TWA (free SiO2 <10%, respirable dust)
Graphite	STELs	Not established	Not established	4 mg/m3 STEL (natural, except Graphite fibres, respirable fraction)	Not established	8 mg/m3 STEL (total dust); 4 mg/m3 STEL (respirable dust)
	TWAs	2 mg/m3 TWA (except Graphite fibres, respirable)	2 mg/m3 TWAEV (containing no Asbestos and <1%	2 mg/m3 TWA (natural, except	20 mppcf TWA; 30 mppcf TWA (synthetic); 10	4 mg/m3 TWA (total dust); 2 mg/m3 TWA (respirable dust)

			Crystalline silica, except Graphite fibres, respirable dust)	Graphite fibres, respirable fraction)	mg/m3 TWA (synthetic)	
Exposure Limits/Guidelines (Con't.)						
	Result	France	Germany DFG	India	Indonesia	Israel
Carbonic acid, magnesium salt (1:1) (546-93-0)	TWAs	10 mg/m3 TWA [VME]	Not established	Not established	10 mg/m3 TWA	Not established
Crystalline silica (14808-60-7)	TWAs	0.1 mg/m3 TWA [VME] (restrictive limit, alveolar fraction)	Not established	(10600)/( %Quartz + 10) mppcm TWA, dust count; (10)/( %Quartz + 2) mg/m3 TWA, respirable dust; (30)/( %Quartz + 3) mg/m3 TWA, total dust	0.1 mg/m3 TWA (respirable particulate)	0.025 mg/m3 TWA (respirable fraction)
Talc (14807-96-6)	TWAs	Not established	Not established	Not established	2 mg/m3 TWA (not containing fiber Asbestos, use NAB asbestos for talc containing fiber asbestos, respirable particulate)	4 mg/m3 TWA (airborne dust no otherwise classified); 2 mg/m3 TWA (particulate matter containing no Asbestos and <1% crystalline silica, respirable fraction)
Graphite (7782-42-5)	TWAs	2 mg/m3 TWA [VME] (alveolar fraction)	Not established	Not established	2 mg/m3 TWA	2 mg/m3 TWA (respirable fraction, all forms except graphite fibers)
	MAKs	Not established	1.5 mg/m3 TWA MAK (respirable fraction); 4 mg/m3 TWA MAK (inhalable fraction)	Not established	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Japan	Malaysia	Mexico	Netherlands	NIOSH
Carbon (animal or vegetable origin) (7440-44-0)	TWAs	Not established	Not established	2 mg/m3 TWA VLE-PPT (dust)	Not established	Not established
Carbonic acid, magnesium salt (1:1) (546-93-0)	TWAs	Not established	10 mg/m3 TWA (particulate matter containing no Asbestos and <1% crystalline Silica)	Not established	Not established	10 mg/m3 TWA (total dust, listed under Magnesite); 5 mg/m3 TWA (respirable dust, listed under Magnesite)
Crystalline silica (14808-60-7)	TWAs	Not established	0.1 mg/m3 TWA (respirable fraction)	0.1 mg/m3 TWA VLE-PPT (respirable fraction)	0.075 mg/m3 TWA (respirable dust, listed under Silicium dioxide)	0.05 mg/m3 TWA (respirable dust)
Talc (14807-96-6)	TWAs	0.5 mg/m3 OEL (Class 1 Dust, respirable dust); 2 mg/m3 OEL (Class 1 Dust, total dust)	2 mg/m3 TWA (respirable fraction of particulate matter)	2 mg/m3 TWA VLE-PPT (respirable fraction)	0.25 mg/m3 TWA	2 mg/m3 TWA (containing no Asbestos and <1% Quartz, respirable dust)
Graphite (7782-42-5)	TWAs	2 mg/m3 OEL (Class 1 Dust, total dust); 0.5 mg/m3 OEL (Class 1 Dust, respirable dust)	2 mg/m3 TWA (all forms except Graphite fibres, respirable fraction)	2 mg/m3 TWA VLE-PPT (synthetic and natural)	Not established	2.5 mg/m3 TWA (natural, respirable dust)
Exposure Limits/Guidelines (Con't.)						
	Result	OSHA	OSHA Vacated	Portugal	Russia	Singapore



Crystalline silica (14808-60-7)	TWAs	50 µg/m <sup>3</sup> TWA (listed under Respirable crystalline silica)	0.1 mg/m <sup>3</sup> TWA (respirable dust)	0.025 mg/m <sup>3</sup> TWA [VLE-MP] (respirable fraction)	1 mg/m <sup>3</sup> TWA (quartz glass, disintegration aerosol, total mass of aerosols, listed under Silicon dioxide amorphous and vitreous); 1 mg/m <sup>3</sup> TWA (containing >70% Silicon dioxide in dust, total mass of aerosols, listed under Crystalline silicon dioxide)	0.1 mg/m <sup>3</sup> PEL (respirable dust)
	STELs	Not established	Not established	Not established	3 mg/m <sup>3</sup> STEL (quartz glass, disintegration aerosol, total mass of aerosols, listed under Silicon dioxide amorphous and vitreous); 3 mg/m <sup>3</sup> STEL (containing >70% Silicon dioxide in dust, total mass of aerosols, listed under Silicon dioxide crystalline)	Not established
Dolomite (16389-88-1)	TWAs	Not established	Not established	Not established	6 mg/m <sup>3</sup> TWA (aerosol)	Not established
Talc (14807-96-6)	TWAs	Not established	2 mg/m <sup>3</sup> TWA (<1% Crystalline silica, containing no Asbestos, respirable dust)	2 mg/m <sup>3</sup> TWA [VLE- MP] (respirable fraction, particulate matter containing no Asbestos and <1% Crystalline silica)	Not established	2 mg/m <sup>3</sup> PEL
Graphite	TWAs	15 mg/m <sup>3</sup> TWA (synthetic, total dust); 5 mg/m <sup>3</sup> TWA (synthetic, respirable fraction)	2.5 mg/m <sup>3</sup> TWA (natural, respirable dust); 10 mg/m <sup>3</sup> TWA (synthetic, total dust); 5 mg/m <sup>3</sup> TWA (synthetic, respirable fraction)	2 mg/m <sup>3</sup> TWA [VLE- MP] (all forms except Graphite fibers, respirable fraction)	Not established	2 mg/m <sup>3</sup> PEL (respirable dust)

#### Exposure Limits/Guidelines (Con't.)

	Result	Thailand	United Kingdom	United States - California	Venezuela
Crystalline silica (14808-60-7)	TWAs	0.025 mg/m <sup>3</sup> TWA (respirable dust)	Not established	0.3 mg/m <sup>3</sup> PEL (total dust); 0.1 mg/m <sup>3</sup> PEL (respirable dust)	0.025 mg/m <sup>3</sup> TWA [VTRE-L-8/40 (respirable fraction)]
Talc (14807-96-6)	TWAs	2 mg/m <sup>3</sup> TWA (containing no asbestos fibres, respirable dust); 0.1 fiber/cm <sup>3</sup> TWA (containing asbestos fibres, respirable dust)	1 mg/m <sup>3</sup> TWA (respirable dust)	2 mg/m <sup>3</sup> PEL (respirable dust, containing no Asbestos fibers, <1% Crystalline silica)	2 mg/m <sup>3</sup> TWA [VTRE-L- 8/40 (respirable fraction; particulate containing no Asbestos and <1% Crystalline silica)
	STELs	Not established	3 mg/m <sup>3</sup> STEL (calculated, respirable dust)	Not established	Not established
Graphite (7782-42-5)	TWAs	Not established	10 mg/m <sup>3</sup> TWA (inhalable dust); 4 mg/m <sup>3</sup> TWA (respirable dust)	2.5 mg/m <sup>3</sup> PEL (natural, respirable dust); 10 mg/m <sup>3</sup> PEL (synthetic total dust); 5 mg/m <sup>3</sup> PEL (synthetic respirable fraction)	2 mg/m <sup>3</sup> TWA [VTRE-L- 8/40 (dust)]
	STELs	Not established	30 mg/m <sup>3</sup> STEL (calculated, inhalable dust); 12 mg/m <sup>3</sup> STEL	Not established	Not established

			(calculated, respirable dust)		
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## Exposure Control Notations

### Mexico

- Talc (14807-96-6): **Carcinogens:** (A4 - Not classifiable as a human carcinogen)

### Egypt

- Graphite (7782-42-5): **Nuisance Dusts:** (10 mg/m<sup>3</sup> TWA (synthetic, containing <1% Quartz, total dust); 30 mppcf TWA (synthetic, containing <1% Quartz, total dust); 3 mg/m<sup>3</sup> TWA (synthetic, containing <1% Quartz, total dust))

### Portugal

- Talc (14807-96-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Crystalline silica (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)

### Indonesia

- Talc (14807-96-6): **Carcinogens:** (A4 - not classifiable as a human carcinogen (not containing asbestos fiber))

### Argentina

- Talc (14807-96-6): **Carcinogens:** (A1 - Confirmed human carcinogen)
- Crystalline silica (14808-60-7): **Carcinogens:** (A2 - Suspected human carcinogen)

### Canada British Columbia

- Crystalline silica (14808-60-7): **Carcinogens:** (ACGIH Category A2 - Suspected Human Carcinogen; IARC Category 1 - Human Carcinogen) | **Designated Substances:** (ACGIH Category A2 - Suspected Human Carcinogen; IARC Category 1 - Human Carcinogen)

### Canada Manitoba

- Talc (14807-96-6): **Carcinogens:** (A4 Not Classifiable as a Human Carcinogen (containing no Asbestos fibers))
- Crystalline silica (14808-60-7): **Carcinogens:** (A2 Suspected Human Carcinogen)

### Canada New Brunswick

- Talc (14807-96-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

### Canada Nova Scotia

- Talc (14807-96-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (containing no Asbestos fibers))
- Crystalline silica (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)

### Canada Ontario

- Crystalline silica (14808-60-7): **Designated Substances:** (0.10 mg/m<sup>3</sup> TWA (respirable fraction, listed under Silica, crystalline))

### Canada Quebec

- Crystalline silica (14808-60-7): **Carcinogens:** (C2 carcinogen - effect suspected in humans)

### Venezuela

- Talc (14807-96-6): **Ceilings:** (Present)
- Crystalline silica (14808-60-7): **Ceilings:** (Present)

### ACGIH

- Talc (14807-96-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers))
- Crystalline silica (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)

### Germany DFG

- Graphite (7782-42-5): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to (inhalable fraction; respirable fraction))
- Talc (14807-96-6): **Carcinogens:** (Category 3B (could be carcinogenic for man; free of asbestos fibers))
- Crystalline silica (14808-60-7): **Carcinogens:** (Category 1 (causes cancer in man; alveola fraction))

## Exposure Limits Supplemental

### Thailand

- Graphite (7782-42-5): **Mineral Dusts:** (15 mppcf TWA)
- Graphite as Particulates not otherwise classified (PNOC): **Mineral Dusts:** (15 mppcf TWA (respirable dust); 15 mg/m<sup>3</sup> TWA (total dust); 50 mppcf TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable dust))
- Talc (14807-96-6): **Mineral Dusts:** (20 mppcf TWA)
- Crystalline silica (14808-60-7): **Mineral Dusts:** (TWA ((250/(%SiO<sub>2</sub> + 5)), mppcf, respirable dust); TWA ((10/(%SiO<sub>2</sub> + 2)), mg/m<sup>3</sup>, respirable dust); TWA ((30/(%SiO<sub>2</sub> + 2)), mg/m<sup>3</sup>, total dust))

### OSHA

- Graphite (7782-42-5): **Mineral Dusts:** (15 mppcf TWA (natural))
- Graphite as Particulates not otherwise classified (PNOC): **Mineral Dusts:** (15 mppcf TWA (respirable fraction); 5 mg/m<sup>3</sup> TWA (respirable fraction); 50 mppcf TWA (total dust); 15 mg/m<sup>3</sup> TWA (total dust))
- Talc (14807-96-6): **Mineral Dusts:** (20 mppcf TWA (if 1% Quartz or more; use Quartz limit))
- Crystalline silica (14808-60-7): **Mineral Dusts:** ((250)/(%)SiO<sub>2</sub> + 5) mppcf TWA, respirable fraction; (10)/(%)SiO<sub>2</sub> + 2 mg/m<sup>3</sup> TWA, respirable fraction)

### ACGIH

- Graphite (7782-42-5): **TLV Basis - Critical Effects:** (pneumoconiosis (all forms except graphite fibers))
- Talc (14807-96-6): **TLV Basis - Critical Effects:** (pulmonary fibrosis (containing no asbestos fibers); pulmonary function (containing no asbestos fibers))
- Crystalline silica (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)

## 8.2 Exposure controls

## Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Personal Protective Equipment

### Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

### Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

### Skin/Body

- Wear appropriate gloves.

### Environmental

### Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

STEL = Short Term Exposure Limits are based on 15-minute exposures

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

TWAEV = Time-Weighted Average Exposure Value

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Black semi-solid paste with mild petroleum odor.
Color	Black	Odor	Mild, petroleum.
Odor Threshold	No data available		
General Properties			
Boiling Point	260 °C(500 °F)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 1.3 Water=1	Water Solubility	No data available
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties:	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	> 171 °C(> 339.8 °F)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Incompatible materials.

### 10.5 Incompatible materials

- Strong oxidizing agents.

### 10.6 Hazardous decomposition products

- Carbon Monoxide, Carbon Dioxide.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Molybdenum sulfide (0.99% TO 10%)	1317-33-5	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LDLo • >2 g/kg; <i>Skin and Appendages:Other:Hair</i> ; Ingestion/Oral-Rat LDLo • 6 g/kg; <i>Behavioral:Food intake (animal)</i> ; <i>Gastrointestinal:Hypermotility, diarrhea</i> ; <i>Gastrointestinal:Nausea or vomiting</i> ; Inhalation-Rat LC50 • >2820 mg/m <sup>3</sup> 4 Hour(s); <i>Lungs, Thorax, or Respiration:Other changes</i> ; Skin-Rat LDLo • >2 g/kg; <i>Skin and Appendages:After systemic exposure:Dermatitis, other</i> ; <i>Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain</i>
Talc (0.6% TO 10%)	14807-96-6	<b>Irritation:</b> Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; <b>Tumorigen / Carcinogen:</b> Inhalation-Rat • 11 mg/m <sup>3</sup> 1 Year(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration:Tumors</i> ; Inhalation-Rat TCLo • 18 mg/m <sup>3</sup> 6 Hour(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Bronchiogenic carcinoma; Endocrine:Tumors</i>
Dolomite (0.05% TO 1%)	16389-88-1	<b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 15000 mg/kg (6-15D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Other effects on embryo</i>
Carbonic acid, magnesium salt (1:1) (0.01% TO 0.5%)	546-93-0	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 8000 mg/kg; Inhalation-Rat TCLo • 76 mg/m <sup>3</sup> 4 Hour(s); <i>Cardiac:Pulse rate increase without fall in BP</i> ; <i>Liver:Liver function tests impaired</i> ; <i>Kidney, Ureter, and Bladder:Other changes in urine composition</i>
Crystalline silica (0.01% TO 0.5%)	14808-60-7	<b>Acute Toxicity:</b> Inhalation-Human TCLo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis)</i> ; <i>Lungs, Thorax, or Respiration:Cough</i> ; <i>Lungs, Thorax, or Respiration:Dyspnea</i> ; Inhalation-Rat TCLo • 200 mg/kg; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis)</i> ; <i>Lungs, Thorax, or Respiration:Other changes</i> ; <i>Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Fe</i> ; <b>Multi-dose Toxicity:</b> Inhalation-Hamster TCLo • 3 mg/m <sup>3</sup> 6 Hour(s) 78 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial)</i> ; <i>Lungs, Thorax, or Respiration:Changes in lung weight</i> ; Inhalation-Rat TCLo • 6.2 mg/m <sup>3</sup> 6 Hour(s) 6 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes</i> ; <i>Blood:Changes in spleen</i> ; <i>Immunological Including Allergic:Increase in cellular immune response</i> ; Inhalation-Rat TCLo • 80 mg/m <sup>3</sup> 26 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis)</i> ; <i>Blood:Changes in spleen</i> ; <i>Immunological Including Allergic:Decrease in cellular immune response</i> ; <b>Mutagen:</b> Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm <sup>3</sup> ; DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Unreported Route-Human • Lung (Somatic cell) • 40 µg/cm <sup>3</sup> ; <b>Tumorigen / Carcinogen:</b> Inhalation-Rat TCLo • 50 mg/m <sup>3</sup> 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Liver:Tumors</i>
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment) (N/A)	64742-65-0	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >5000 mg/kg; Skin-Rabbit LD50 • >5000 mg/kg; <b>Tumorigen / Carcinogen:</b> Skin-Mouse • 389 g/kg 78 Week(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Skin and Appendages:Other:Tumors</i> ; <i>Tumorigenic:Tumors at site of application</i> ; Skin-Mouse TDLo • 386 g/kg 22 Week(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Skin and Appendages:Other:Tumors</i> ; <i>Tumorigenic:Tumors at site of application</i>
Antimony, tris(dipentylcarbomodithioato-kappa-S,kappa-S)-, (OC-6-11)- (0.7% TO 1.4%)	15890-25-2	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >16400 mg/kg; <i>Behavioral:Somnolence (general depressed activity)</i> ; <i>Gastrointestinal:Hypermotility, diarrhea</i> ; Skin-Rabbit LD50 • >16000 mg/kg

Naphthenic acid, zinc salt (0% TO 0.35%)	12001-85-3	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 4920 mg/kg; Inhalation-Rat LCLo • >1170 mg/m <sup>3</sup> 8 Hour(s); Skin-Rabbit LDLo • >2 g/kg; <b>Irritation:</b> Eye-Rabbit • 100 mg • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 9380 mg/kg (6-15D preg); <i>Reproductive Effects: Effects on Fertility. Post-implantation mortality; Reproductive Effects: Effects on Embryo or Fetus. Fetotoxicity (except death, e.g., stunted fetus)</i>
Benzenesulfonic acid, dodecyl-, calcium salt (0.35% TO 1.75%)	26264-06-2	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 1300 mg/kg

GHS Properties	Classification
Acute toxicity	EU/CLP•Data lacking UN GHS 4•Acute Toxicity - Oral 5 - ATEmix (oral) = 3841 mg/kg OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Skin corrosion/Irritation	EU/CLP•Data lacking UN GHS 4•Skin Mild Irritation 3 OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Serious eye damage/Irritation	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Skin sensitization	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Respiratory sensitization	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Aspiration Hazard	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Carcinogenicity	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Germ Cell Mutagenicity	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Toxicity for Reproduction	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
STOT-SE	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
STOT-RE	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking

## Potential Health Effects

### Inhalation

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • No data available

### Skin

**Acute (Immediate)** • Causes mild skin irritation.

**Chronic (Delayed)** • No data available

### Eye

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • No data available

### Ingestion

**Acute (Immediate)** • May be harmful if swallowed.

**Chronic (Delayed)** • No data available

**Carcinogenic Effects** • This material contains a component that may cause cancer, however based on regulatory criteria this material is not classified as a carcinogen.

Carcinogenic Effects			
	CAS	IARC	NTP
Crystalline silica	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen

#### Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

## Section 12 - Ecological Information

### 12.1 Toxicity

- Material data lacking.

### 12.2 Persistence and degradability

- Material data lacking.

### 12.3 Bioaccumulative potential

- Material data lacking.

### 12.4 Mobility in Soil

- Material data lacking.

### 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

### 12.6 Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

**Product waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

14.6 Special precautions for user

• None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code • Data lacking.

## Section 15 - Regulatory Information

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

SARA Hazard Classifications

• None

State Right To Know		
Component	CAS	PA
Antimony, tris(dipentylcarbamodithioato-kappa-S,kappa-S)-, (OC-6-11)-	15890-25-2	No
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	No
Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Yes
Carbon (animal or vegetable origin)	7440-44-0	No
Carbon fiber	308063-67-4	No
Carbonic acid, magnesium salt (1:1)	546-93-0	No
Chlorite	1318-59-8	No
Crystalline silica	14808-60-7	Yes
Dolomite	16389-88-1	No
Graphite	7782-42-5	Yes
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	No
Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	No
Molybdenum sulfide	1317-33-5	No
Naphthenic acid, zinc salt	12001-85-3	No
Talc	14807-96-6	Yes
Thickener	54326-11-3	No

Inventory						
Component	CAS	Australia AICS	Canada DSL	Canada NDSL	China	EU EINECS
Antimony, tris(dipentylcarbamodithioato-	15890-25-2	Yes	Yes	No	Yes	Yes

kappa-S,kappa-S')-, (OC-6-11)-						
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Yes	Yes	No	Yes	Yes
Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Yes	Yes	No	Yes	Yes
Carbon (animal or vegetable origin)	7440-44-0	Yes	Yes	No	Yes	Yes
Carbon fiber	308063-67-4	No	No	No	No	No
Carbonic acid, magnesium salt (1:1)	546-93-0	Yes	Yes	No	Yes	Yes
Chlorite	1318-59-8	No	No	No	Yes	Yes
Crystalline silica	14808-60-7	Yes	Yes	No	Yes	Yes
Dolomite	16389-88-1	Yes	No	Yes	Yes	Yes
Graphite	7782-42-5	Yes	Yes	No	Yes	Yes
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Yes	Yes	No	Yes	Yes
Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Yes	Yes	No	Yes	Yes
Molybdenum sulfide	1317-33-5	Yes	Yes	No	Yes	Yes
Naphthenic acid, zinc salt	12001-85-3	Yes	Yes	No	Yes	Yes
Talc	14807-96-6	Yes	Yes	No	Yes	Yes
Thickener	54326-11-3	Yes	Yes	No	Yes	Yes

**Inventory (Con't.)**

Component	CAS	EU ELNICS	Japan ENCS	TSCA
Antimony, tris(dipentylcarbamodithioato-kappa-S,kappa-S')-, (OC-6-11)-	15890-25-2	No	Yes	Yes
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	No	No	Yes
Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	No	Yes	Yes
Carbon (animal or vegetable origin)	7440-44-0	No	No	Yes
Carbon fiber	308063-67-4	No	No	No
Carbonic acid, magnesium salt (1:1)	546-93-0	No	Yes	Yes
Chlorite	1318-59-8	No	No	No
Crystalline silica	14808-60-7	No	Yes	Yes
Dolomite	16389-88-1	No	No	Yes
Graphite	7782-42-5	No	No	Yes
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	No	No	Yes
Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	No	No	Yes
Molybdenum sulfide	1317-33-5	No	Yes	Yes
Naphthenic acid, zinc salt	12001-85-3	No	Yes	Yes
Talc	14807-96-6	No	Yes	Yes
Thickener	54326-11-3	No	Yes	Yes



## United States - California

### Environment

#### U.S. - California - Proposition 65 - Carcinogens List

•Thickener	54326-11-3	Not Listed
•Chlorite	1318-59-8	Not Listed
•Dolomite	16389-88-1	Not Listed
•Carbon (animal or vegetable origin)	7440-44-0	Not Listed
•Naphthenic acid, zinc salt	12001-85-3	Not Listed
•Talc	14807-96-6	Not Listed
•Carbonic acid, magnesium salt (1:1)	546-93-0	Not Listed
•Molybdenum sulfide	1317-33-5	Not Listed
•Crystalline silica	14808-60-7	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed
•Antimony, tris(dipentylcarbomodithioato-kappa-S,kappa-S')-, (OC-6-11)-	15890-25-2	Not Listed
•Carbon fiber	308063-67-4	Not Listed

#### U.S. - California - Proposition 65 - Developmental Toxicity

•Thickener	54326-11-3	Not Listed
•Chlorite	1318-59-8	Not Listed
•Dolomite	16389-88-1	Not Listed
•Carbon (animal or vegetable origin)	7440-44-0	Not Listed
•Naphthenic acid, zinc salt	12001-85-3	Not Listed
•Talc	14807-96-6	Not Listed
•Carbonic acid, magnesium salt (1:1)	546-93-0	Not Listed
•Molybdenum sulfide	1317-33-5	Not Listed
•Crystalline silica	14808-60-7	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed
•Antimony, tris(dipentylcarbomodithioato-kappa-S,kappa-S')-, (OC-6-11)-	15890-25-2	Not Listed
•Carbon fiber	308063-67-4	Not Listed

#### U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

•Thickener	54326-11-3	Not Listed
•Chlorite	1318-59-8	Not Listed
•Dolomite	16389-88-1	Not Listed
•Carbon (animal or vegetable origin)	7440-44-0	Not Listed
•Naphthenic acid, zinc salt	12001-85-3	Not Listed
•Talc	14807-96-6	Not Listed
•Carbonic acid, magnesium salt (1:1)	546-93-0	Not Listed
•Molybdenum sulfide	1317-33-5	Not Listed
•Crystalline silica	14808-60-7	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed
•Antimony, tris(dipentylcarbomodithioato-kappa-S,kappa-S')-, (OC-6-11)-	15890-25-2	Not Listed
•Carbon fiber	308063-67-4	Not Listed

#### U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

•Thickener	54326-11-3	Not Listed
•Chlorite	1318-59-8	Not Listed
•Dolomite	16389-88-1	Not Listed
•Carbon (animal or vegetable origin)	7440-44-0	Not Listed
•Naphthenic acid, zinc salt	12001-85-3	Not Listed
•Talc	14807-96-6	Not Listed

•Carbonic acid, magnesium salt (1:1)	546-93-0	Not Listed
•Molybdenum sulfide	1317-33-5	Not Listed
•Crystalline silica	14808-60-7	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed
•Antimony, tris(dipentylcarbomodithioato-kappa-S,kappa-S')-, (OC-6-11)-	15890-25-2	Not Listed
•Carbon fiber	308063-67-4	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>		
•Thickener	54326-11-3	Not Listed
•Chlorite	1318-59-8	Not Listed
•Dolomite	16389-88-1	Not Listed
•Carbon (animal or vegetable origin)	7440-44-0	Not Listed
•Naphthenic acid, zinc salt	12001-85-3	Not Listed
•Talc	14807-96-6	Not Listed
•Carbonic acid, magnesium salt (1:1)	546-93-0	Not Listed
•Molybdenum sulfide	1317-33-5	Not Listed
•Crystalline silica	14808-60-7	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed
•Antimony, tris(dipentylcarbomodithioato-kappa-S,kappa-S')-, (OC-6-11)-	15890-25-2	Not Listed
•Carbon fiber	308063-67-4	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>		
•Thickener	54326-11-3	Not Listed
•Chlorite	1318-59-8	Not Listed
•Dolomite	16389-88-1	Not Listed
•Carbon (animal or vegetable origin)	7440-44-0	Not Listed
•Naphthenic acid, zinc salt	12001-85-3	Not Listed
•Talc	14807-96-6	Not Listed
•Carbonic acid, magnesium salt (1:1)	546-93-0	Not Listed
•Molybdenum sulfide	1317-33-5	Not Listed
•Crystalline silica	14808-60-7	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	64742-65-0	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed
•Antimony, tris(dipentylcarbomodithioato-kappa-S,kappa-S')-, (OC-6-11)-	15890-25-2	Not Listed
•Carbon fiber	308063-67-4	Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

### Section 16 - Other Information

#### Relevant Phrases (code & full text)

- H302 - Harmful if swallowed
- H319 - Causes serious eye irritation
- H350 - May cause cancer.
- H350i - May cause cancer by inhalation.
- H372 - Causes damage to organs through prolonged or repeated exposure.
- H412 - Harmful to aquatic life with long lasting effects

#### Revision Date

- 14/February/2018

**Last Revision Date**

- 14/February/2018

**Preparation Date**

- 01/November/2016

**Disclaimer/Statement  
of Liability**

- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Key to abbreviations**

NDA = No Data Available