



# Material Safety Data Sheet

No. 176 Open Gear Lubricant

## 1. Product and company identification

<b>Product name</b>	: No. 176 Open Gear Lubricant
<b>Material uses</b>	: Petroleum lubricating grease
<b>Supplier/Manufacturer</b>	: LUBRIPLATE® Lubricants Co. 129 Lockwood St. Newark, NJ 07105 Telephone no.: 1-973-589-9150
<b>Validation date</b>	: 16/09/2013.
<b>Prepared by</b>	: IHS
<b>In case of emergency</b>	: CHEM-TEL 1-800-255-3924 (24 hour)

## 2. Hazards identification

<b>Physical state</b>	: Solid. [grease, Smooth.]
<b>Color</b>	: Black.
<b>Odor</b>	: Mineral oil.
<b>Emergency overview</b>	
<b>Signal word</b>	: WARNING!
<b>Hazard statements</b>	: HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
<b>Precautions</b>	: Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Routes of entry</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Potential acute health effects</b>	
<b>Inhalation</b>	: Toxic by inhalation. Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Skin</b>	: Irritating to skin.
<b>Eyes</b>	: Irritating to eyes.
<b>Potential chronic health effects</b>	
<b>Chronic effects</b>	: Contains material that may cause target organ damage, based on animal data. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## 2. Hazards identification

**Target organs** : Contains material which may cause damage to the following organs: lungs, cardiovascular system, upper respiratory tract, skin, eyes, central nervous system (CNS).

### Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Ingestion** : No specific data.

**Skin** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking

**Eyes** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

## 3. Composition/information on ingredients

### United States

Name	CAS number	%
Residual oils (petroleum), solvent-dewaxed	64742-62-7	30-60
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10-30
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	5-10
Natural graphite	7782-42-5	5-10
1-Octene, polymer with ethene	26221-73-8	1-5
antimony tris[O,O-dipropyl] tris(dithiophosphate)	15874-48-3	1-5
carbon black non-respirable	1333-86-4	1-5

### Canada

Name	CAS number	%
Residual oils (petroleum), solvent-dewaxed	64742-62-7	30-60
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10-30
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	5-10
Natural graphite	7782-42-5	5-10
1-Octene, polymer with ethene	26221-73-8	1-5
antimony tris[O,O-dipropyl] tris(dithiophosphate)	15874-48-3	1-5
carbon black non-respirable	1333-86-4	1-5

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

## 4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## 5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
phosphorus oxides  
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**

## 6. Accidental release measures

- Small spill** : Move containers from spill area. Avoid allowing the spilled material to get wet or using water to clean up spillages or residues, unless the quantity remaining is very small. Absorb with an inert material and place in an appropriate waste disposal container. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

### United States

Ingredient	Exposure limits
Residual oils (petroleum), solvent-dewaxed	<p><b>ACGIH TLV (United States, 3/2012).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction</p> <p><b>NIOSH REL (United States, 1/2013).</b> TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist</p> <p><b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m<sup>3</sup> 8 hours.</p>
Distillates (petroleum), hydrotreated heavy naphthenic	<p><b>ACGIH TLV (United States, 1/2010).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Dusts and mists</p> <p><b>ACGIH TLV (United States, 3/2012).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction</p> <p><b>NIOSH REL (United States, 1/2013).</b> TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist</p> <p><b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m<sup>3</sup> 8 hours.</p>
Distillates (petroleum), hydrotreated light naphthenic	<p><b>ACGIH TLV (United States, 3/2012).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction</p> <p><b>NIOSH REL (United States, 1/2013).</b> TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist</p> <p><b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m<sup>3</sup> 8 hours.</p>
Natural graphite	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 2.5 mg/m<sup>3</sup> 8 hours. Form: Respirable dust</p>

## 8. Exposure controls/personal protection

<p>1-Octene, polymer with ethene</p> <p>antimony tris[O,O-dipropyl] tris(dithiophosphate)</p> <p>carbon black non-respirable</p>	<p><b>ACGIH TLV (United States, 3/2012).</b> TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p><b>NIOSH REL (United States, 1/2013).</b> TWA: 2.5 mg/m<sup>3</sup> 10 hours. Form: Respirable fraction</p> <p><b>OSHA PEL Z3 (United States, 9/2005).</b> TWA: 15 mppcf 8 hours.</p> <p><b>ACGIH TLV (United States).</b> TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p><b>ACGIH TLV (United States, 3/2012).</b> TWA: 0.5 mg/m<sup>3</sup>, (as Sb) 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 0.5 mg/m<sup>3</sup>, (as Sb) 8 hours.</p> <p><b>OSHA PEL (United States, 6/2010).</b> TWA: 0.5 mg/m<sup>3</sup>, (as Sb) 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 3.5 mg/m<sup>3</sup> 8 hours.</p> <p><b>NIOSH REL (United States, 1/2013).</b> TWA: 3.5 mg/m<sup>3</sup> 10 hours. TWA: 0.1 mg of PAHs/cm<sup>3</sup> 10 hours.</p> <p><b>ACGIH TLV (United States, 3/2012).</b> TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction</p> <p><b>OSHA PEL (United States, 6/2010).</b> TWA: 3.5 mg/m<sup>3</sup> 8 hours.</p>
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### Canada

<u>Occupational exposure limits</u>		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	Notations
Natural graphite	US ACGIH 3/2012	-	2	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	2	-	-	-	-	-	-	-	[b]
	BC 4/2012	-	2	-	-	-	-	-	-	-	[c]
	ON 1/2013	-	2	-	-	-	-	-	-	-	[a]
	QC 12/2012	-	2	-	-	-	-	-	-	-	[d]
antimony tris[O,O-dipropyl] tris(dithiophosphate), as Sb	US ACGIH 3/2012	-	0.5	-	-	-	-	-	-	-	
	AB 4/2009	-	0.5	-	-	-	-	-	-	-	
	BC 4/2012	-	0.5	-	-	-	-	-	-	-	
	ON 1/2013	-	0.5	-	-	-	-	-	-	-	
	QC 12/2012	-	0.5	-	-	-	-	-	-	-	
carbon black non-respirable	US ACGIH 3/2012	-	3	-	-	-	-	-	-	-	[e]
	AB 4/2009	-	3.5	-	-	-	-	-	-	-	[f]
	BC 4/2012	-	3	-	-	-	-	-	-	-	[e]
	ON 1/2013	-	3	-	-	-	-	-	-	-	[e]
	QC 12/2012	-	3.5	-	-	-	-	-	-	-	[e]
Residual oils (petroleum), solvent-dewaxed	US ACGIH 3/2012	-	5	-	-	-	-	-	-	-	[e]
	AB 4/2009	-	5	-	-	10	-	-	-	-	[g]
	ON 1/2013	-	5	-	-	10	-	-	-	-	[h]
	QC 12/2012	-	5	-	-	10	-	-	-	-	[h]
Distillates (petroleum), hydrotreated heavy naphthenic	US ACGIH 1/2010	-	5	-	-	-	-	-	-	-	[i]
	US ACGIH 3/2012	-	5	-	-	-	-	-	-	-	[e]
	AB 4/2009	-	5	-	-	10	-	-	-	-	[g]
	ON 1/2013	-	5	-	-	10	-	-	-	-	[h]
	QC 12/2012	-	5	-	-	10	-	-	-	-	[h]
Distillates (petroleum), hydrotreated light naphthenic	US ACGIH 3/2012	-	5	-	-	-	-	-	-	-	[e]
	AB 4/2009	-	5	-	-	10	-	-	-	-	[g]
	ON 1/2013	-	5	-	-	10	-	-	-	-	[h]
	QC 12/2012	-	5	-	-	10	-	-	-	-	[h]
	US ACGIH	-	10	-	-	-	-	-	-	-	[e]
1-Octene, polymer with ethene	US ACGIH	-	3	-	-	-	-	-	-	-	[a]

## 8. Exposure controls/personal protection

**Form:** [a]Respirable fraction [b]Respirable (all forms except graphite fibres) [c]Respirable [d]Respirable dust. [e]Inhalable fraction [f]Inhalable [g]Mist [h]mist [i]Dusts and mists

### Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

**Respiratory** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

**Physical state** : Solid. [grease, Smooth.]  
**Flash point** : Open cup: 182°C (359.6°F)  
**Auto-ignition temperature** : Not available.  
**Flammable limits** : Lower: 0.9%  
Upper: 7%  
**Color** : Black.  
**Odor** : Mineral oil.

## 9. Physical and chemical properties

<b>pH</b>	: Not available.
<b>Boiling/condensation point</b>	: >288°C (>550.4°F)
<b>Melting/freezing point</b>	: Not available.
<b>Relative density</b>	: 0.98
<b>Density</b>	: Not available.
<b>Vapor pressure</b>	: <0.01
<b>Vapor density</b>	: >5 [Air = 1]
<b>VOC content</b>	: 7.12 lbs/gal (852.9 g/l)
<b>Odor threshold</b>	: Not available.
<b>Evaporation rate</b>	: <0.01 (butyl acetate = 1)
<b>Viscosity</b>	: Not available.
<b>Solubility</b>	: Insoluble in the following materials: cold water and hot water.
<b>LogK<sub>ow</sub></b>	: Not available.

## 10. Stability and reactivity

<b>Chemical stability</b>	: The product is stable.
<b>Conditions to avoid</b>	: Avoid all possible sources of ignition (spark or flame).
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidizing materials. Chlorine
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.  Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
carbon black non-respirable Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>15400 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), hydrotreated light naphthenic	LC50 Inhalation Dusts and mists	Rat - Male, Female	>5.53 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-

### Chronic toxicity

Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Distillates (petroleum), hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 0.5 Milliliters	-

## 11. Toxicological information

### Sensitizer

Not available.

### Carcinogenicity

**Conclusion/Summary** : The mineral oils in the product contain < 3% DMSO extract (IP 346).

### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Residual oils (petroleum), solvent-dewaxed	A4	-	-	-	-	-
Distillates (petroleum), hydrotreated heavy naphthenic	A4	-	-	-	-	-
Distillates (petroleum), hydrotreated light naphthenic	A4	-	-	-	-	-

### Mutagenicity

Not available.

### Teratogenicity

Not available.

### Reproductive toxicity

Not available.

## 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Not available.

### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Residual oils (petroleum), solvent-dewaxed	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	6 % - 28 days	-	-

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### 14. Transport information

DOT/TDG/IMDG/IATA : Not regulated.

### 15. Regulatory information

#### United States

**HCS Classification** : Toxic material  
Irritating material  
Target organ effects

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined  
**United States inventory (TSCA 8b)**: All components are listed or exempted.  
**SARA 302/304**: No products were found.  
**SARA 311/312 Hazards identification**: Immediate (acute) health hazard, Delayed (chronic) health hazard  
**Clean Water Act (CWA) 307**: antimony tris[O,O-dipropyl] tris(dithiophosphate)  
**Clean Air Act (CAA) 112 accidental release prevention**: No products were found.

**Clean Air Act Section 112** : Listed

#### (b) Hazardous Air Pollutants (HAPs)

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

#### SARA 313

	Product name	CAS number	Concentration
<b>Form R - Reporting requirements</b>	antimony tris[O,O-dipropyl] tris(dithiophosphate)	15874-48-3	1-5
<b>Supplier notification</b>	antimony tris[O,O-dipropyl] tris(dithiophosphate)	15874-48-3	1-5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

#### State regulations

**Massachusetts** : The following components are listed: MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC; GRAPHITE (NATURAL)DUST; CARBON BLACK

**New York** : None of the components are listed.

## 15. Regulatory information

**New Jersey** : The following components are listed: MINERAL OIL (HIGHLY REFINED); OIL MIST, MINERAL; MINERAL OIL (HIGHLY REFINED); OIL MIST, MINERAL; MINERAL OIL (HIGHLY REFINED); OIL MIST, MINERAL; GRAPHITE (NATURAL); GRAPHITE; ANTIMONY compounds; CARBON BLACK

**Pennsylvania** : The following components are listed: GRAPHITE; ANTIMONY COMPOUNDS; CARBON BLACK

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
crystalline silica respirable	Yes.	No.	No.	No.

### Canada

**WHMIS (Canada)** : Class D-1B: Material causing immediate and serious toxic effects (Toxic).  
Class D-2A: Material causing other toxic effects (Very toxic).  
Class D-2B: Material causing other toxic effects (Toxic).

### Canadian lists

**Canadian NPRI** : The following components are listed: Antimony (and its compounds)

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : All components are listed or exempted.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.**

### International regulations

**International lists** : **Australia inventory (AICS):** All components are listed or exempted.  
**China inventory (IECSC):** All components are listed or exempted.  
**Japan inventory:** Not determined.  
**Korea inventory:** Not determined.  
**Malaysia Inventory (EHS Register):** Not determined.  
**New Zealand Inventory of Chemicals (NZIoC):** Not determined.  
**Philippines inventory (PICCS):** Not determined.  
**Taiwan inventory (CSNN):** Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

## 16. Other information

**Label requirements** : HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

**Hazardous Material Information System (U.S.A.)** :

Health	*	2
Flammability		1
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** :



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Indicates information that has changed from previously issued version.

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