

# Material Safety Data Sheet

## BULLDOG 5TH WHEEL GREASE & SLIDER LUBE

### 1. Product and company identification

<b>Material uses</b>	: Industrial applications: Lubricants; grease.
<b>Product code</b>	: 4028-2904002
<b>MSDS #</b>	: 2076
<b>Validation date</b>	: 9/25/2013.
<b><u>In case of emergency</u></b>	: Swiss Toxicological Information Centre CH-8028 Zurich +41 1 251 51 51 (europe)

### 2. Hazards identification

#### Emergency overview

<b>Physical state</b>	: Solid. [grease]
<b>Color</b>	: Black.
<b>Odor</b>	: Mild. Petroleum oil
<b>Signal word</b>	: WARNING!
<b>Hazard statements</b>	: CAUSES EYE AND SKIN IRRITATION.
<b>Precautionary measures</b>	: Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. 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.

#### Potential acute health effects

<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Skin</b>	: May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
<b>Eyes</b>	: May cause mild eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

#### Potential chronic health effects

<b>Chronic effects</b>	: Contains material that may cause target organ damage, based on animal data.
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## 2. Hazards identification

- Carcinogenicity** : Contains crystalline silica; Suspected of causing cancer if inhaled. Risk of cancer depends on duration and level of exposure. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Target organs** : Contains material which may cause damage to the following organs: lungs, cardiovascular system, upper respiratory tract, skin, eyes.

### Over-exposure signs/symptoms

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin** : Adverse symptoms may include the following:  
irritation  
redness
- 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.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

### United States

Name	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	30-50
Natural graphite	7782-42-5	20-40
Residual oils (petroleum), solvent deasphalted	64741-95-3	5-10
molybdenum disulphide	1317-33-5	1-5

### Canada

Name	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	30-50
Natural graphite	7782-42-5	20-40
Residual oils (petroleum), solvent deasphalted	64741-95-3	5-10
molybdenum disulphide	1317-33-5	1-5

### Mexico

#### Classification

Name	CAS number	UN number	%	IDLH	H	F	R	Special

### 3. Composition/information on ingredients

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Not available.	30-50	2500 mg/m <sup>3</sup>	1	1	0	-
Natural graphite	7782-42-5	Not available.	20-40	1250 mg/m <sup>3</sup>	1	0	0	-
Residual oils (petroleum), solvent deasphalted	64741-95-3	Not available.	5-10	2500 mg/m <sup>3</sup>	1	1	0	-
molybdenum disulphide	1317-33-5	Not available.	1-5	5000 mg/m <sup>3</sup>	1	0	0	-

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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- 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  
sulfur 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.



## 8. Exposure controls/personal protection

Residual oils (petroleum), solvent deasphalted	<p>TWA: 2.5 mg/m<sup>3</sup> 10 hours. Form: Respirable fraction  <b>OSHA PEL Z3 (United States, 9/2005).</b>  TWA: 15 mppcf 8 hours.  <b>ACGIH TLV (United States, 3/2012).</b>  TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction  <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  <b>OSHA PEL (United States, 6/2010).</b>  TWA: 5 mg/m<sup>3</sup> 8 hours.</p>
molybdenum disulphide	<p><b>ACGIH TLV (United States, 3/2012).</b>  TWA: 10 mg/m<sup>3</sup>, (as Mo) 8 hours. Form: Inhalable fraction  TWA: 3 mg/m<sup>3</sup>, (as Mo) 8 hours. Form: Respirable fraction  <b>OSHA PEL 1989 (United States, 3/1989).</b>  TWA: 10 mg/m<sup>3</sup>, (as Mo) 8 hours. Form: Total dust  <b>OSHA PEL (United States, 6/2010).</b>  TWA: 15 mg/m<sup>3</sup>, (as Mo) 8 hours. Form: Total dust</p>

### 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]
molybdenum disulphide, as Mo	US ACGIH 3/2012	-	10	-	-	-	-	-	-	-	[e]
	US ACGIH 3/2012	-	3	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	3	-	-	-	-	-	-	-	[c]
molybdenum disulphide	-	-	10	-	-	-	-	-	-	-	
	BC 4/2012	-	10	-	-	-	-	-	-	-	[f]
molybdenum disulphide, as Mo	BC 4/2012	-	3	-	-	-	-	-	-	-	[c]
	ON 1/2013	-	10	-	-	-	-	-	-	-	[e]
	ON 1/2013	-	3	-	-	-	-	-	-	-	[a]
	QC 12/2012	-	10	-	-	-	-	-	-	-	
Distillates (petroleum), hydrotreated heavy 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 3/2012	-	5	-	-	-	-	-	-	-	[e]
Residual oils (petroleum), solvent deasphalted	AB 4/2009	-	5	-	-	10	-	-	-	-	[g]
	ON 1/2013	-	5	-	-	10	-	-	-	-	[h]
	QC 12/2012	-	5	-	-	10	-	-	-	-	[h]
	US ACGIH 3/2012	-	5	-	-	-	-	-	-	-	[e]
	AB 4/2009	-	5	-	-	10	-	-	-	-	[g]

**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

### Mexico

#### Occupational exposure limits

## 8. Exposure controls/personal protection

Ingredient	Exposure limits
Distillates (petroleum), hydrotreated heavy naphthenic	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 5 mg/m <sup>3</sup> 8 hours. Form: mist LMPE-CT: 10 mg/m <sup>3</sup> 15 minutes. Form: mist
Natural graphite	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 2 mg/m <sup>3</sup> 8 hours.
Residual oils (petroleum), solvent deasphalted	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 5 mg/m <sup>3</sup> 8 hours. Form: mist LMPE-CT: 10 mg/m <sup>3</sup> 15 minutes. Form: mist
molybdenum disulphide	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 10 mg/m <sup>3</sup> , (as Mo) 8 hours. LMPE-CT: 20 mg/m <sup>3</sup> , (as Mo) 15 minutes.

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** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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

<b>Physical state</b>	: Solid. [grease]
<b>Flash point</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Flammable limits</b>	: Not available.
<b>Color</b>	: Black.
<b>Odor</b>	: Mild. Petroleum oil
<b>pH</b>	: Not applicable.
<b>Boiling/condensation point</b>	: Not available.
<b>Melting/freezing point</b>	: Not available.
<b>Density</b>	: 0.96 g/cm <sup>3</sup>
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Volatility</b>	: Not available.
<b>Evaporation rate</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Dispersibility properties</b>	: Not available.
<b>Solubility</b>	: Insoluble in the following materials: cold water.

## 10. Stability and reactivity

<b>Chemical stability</b>	: The product is stable.
<b>Conditions to avoid</b>	: No specific data.
<b>Incompatible materials</b>	: No specific data.
<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.

## 11. Toxicological information

### United States

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-

**Conclusion/Summary** : No known significant effects or critical hazards.

#### Chronic toxicity

**Conclusion/Summary** : Contains material that may cause target organ damage, based on animal data.

#### Irritation/Corrosion

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

## 11. Toxicological information

### Conclusion/Summary

- Skin** : May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
- Eyes** : May cause mild eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
- Respiratory** : Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

### Sensitizer

#### Conclusion/Summary

- Skin** : No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.
- Respiratory** : Sensitization not suspected for humans.

### Carcinogenicity

#### Conclusion/Summary

- : Contains crystalline silica; Suspected of causing cancer if inhaled. Risk of cancer depends on duration and level of exposure. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

### Mutagenicity

#### Conclusion/Summary

- : There are no data available on the mixture itself. Mutagenicity not suspected for humans.

### Teratogenicity

#### Conclusion/Summary

- : There are no data available on the mixture itself. Teratogenicity not suspected for humans.

### Reproductive toxicity

#### Conclusion/Summary

- : There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

### Canada

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-

- Conclusion/Summary** : No known significant effects or critical hazards.

#### Chronic toxicity

#### Conclusion/Summary

- : Contains material that may cause target organ damage, based on animal data.

#### Irritation/Corrosion

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

#### Conclusion/Summary

## 11. Toxicological information

- Skin** : May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
- Eyes** : May cause mild eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
- Respiratory** : Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

### Sensitizer

#### **Conclusion/Summary**

- Skin** : No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.
- Respiratory** : Sensitization not suspected for humans.

### Carcinogenicity

#### **Conclusion/Summary**

- : Contains crystalline silica; Suspected of causing cancer if inhaled. Risk of cancer depends on duration and level of exposure. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

### Mutagenicity

#### **Conclusion/Summary**

- : There are no data available on the mixture itself. Mutagenicity not suspected for humans.

### Teratogenicity

#### **Conclusion/Summary**

- : There are no data available on the mixture itself. Teratogenicity not suspected for humans.

### Reproductive toxicity

#### **Conclusion/Summary**

- : There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

### Mexico

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-

- Conclusion/Summary** : No known significant effects or critical hazards.

#### Chronic toxicity

#### **Conclusion/Summary**

- : Contains material that may cause target organ damage, based on animal data.

#### Irritation/Corrosion

Product/ingredient name	Result	Score	Score	Exposure	Observation
Distillates (petroleum), hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit	-	500 milligrams	-

#### **Conclusion/Summary**

- Skin** : May cause skin irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

## 11. Toxicological information

- Eyes** : May cause mild eye irritation. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
- Respiratory** : Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.
- Sensitizer**
- Conclusion/Summary**
- Skin** : No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.
- Respiratory** : Sensitization not suspected for humans.
- Carcinogenicity**
- Conclusion/Summary** : Contains crystalline silica; Suspected of causing cancer if inhaled. Risk of cancer depends on duration and level of exposure. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
- Mutagenicity**
- Conclusion/Summary** : There are no data available on the mixture itself. Mutagenicity not suspected for humans.
- Teratogenicity**
- Conclusion/Summary** : There are no data available on the mixture itself. Teratogenicity not suspected for humans.
- Reproductive toxicity**
- Conclusion/Summary** : There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

## 12. Ecological information

- Ecotoxicity** : Not readily biodegradable.
- United States**
- Aquatic ecotoxicity**
- Conclusion/Summary** : There are no data available on the mixture itself.
- Persistence/degradability**
- Conclusion/Summary** : This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioaccumulate through food chains in the environment.
- Canada**
- Aquatic ecotoxicity**
- Conclusion/Summary** : There are no data available on the mixture itself.
- Persistence/degradability**
- Conclusion/Summary** : This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioaccumulate through food chains in the environment.
- Mexico**
- Aquatic ecotoxicity**
- Conclusion/Summary** : There are no data available on the mixture itself.
- Persistence/degradability**
- Conclusion/Summary** : This product has not been tested for biodegradation. Not readily biodegradable. This product is not expected to bioaccumulate through food chains in the environment.

## 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.

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

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\* : Packing group

## 15. Regulatory information

### United States

**HCS Classification** : 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

## 15. Regulatory information

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**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>	: No listed substance		
<b>Supplier notification</b>	: No listed substance		

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

- Connecticut Carcinogen Reporting** : None of the components are listed.
- Connecticut Hazardous Material Survey** : None of the components are listed.
- Florida substances** : None of the components are listed.
- Illinois Chemical Safety Act** : None of the components are listed.
- Illinois Toxic Substances Disclosure to Employee Act** : None of the components are listed.
- Louisiana Reporting** : None of the components are listed.
- Louisiana Spill** : None of the components are listed.
- Massachusetts Spill** : None of the components are listed.
- Massachusetts Substances** : The following components are listed: GRAPHITE (NATURAL)DUST; MOLYBDENUM DISULFIDE
- Michigan Critical Material** : None of the components are listed.
- Minnesota Hazardous Substances** : None of the components are listed.
- New Jersey Spill** : None of the components are listed.
- New Jersey Toxic Catastrophe Prevention Act** : None of the components are listed.
- New Jersey Hazardous Substances** : The following components are listed: GRAPHITE (NATURAL); GRAPHITE; SILICA, QUARTZ; QUARTZ (SiO2)
- New York Acutely Hazardous Substances** : None of the components are listed.
- New York Toxic Chemical Release Reporting** : None of the components are listed.
- Pennsylvania RTK Hazardous Substances** : The following components are listed: GRAPHITE
- Rhode Island Hazardous Substances** : None of the components are listed.

### California Prop. 65

None of the components are listed.

## 15. Regulatory information

**United States inventory (TSCA 8b)** : All components are listed or exempted.

### Canada

#### Canadian lists

**Canadian NPRI** : None of the components are listed.

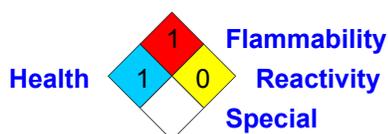
**CEPA Toxic substances** : None of the components are listed.

**Canada inventory; DSL/ NDSL** : 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.

### Mexico

**Classification** :



### 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**: All components are listed or exempted.
- Malaysia Inventory (EHS Register)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: All components are listed or exempted.
- Philippines inventory (PICCS)**: All components are listed or exempted.
- Taiwan inventory (CSNN)**: Not determined.
- Europe inventory** : All components are listed or exempted.

**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** : CAUSES EYE AND SKIN IRRITATION.

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

Health	*	1
Flammability		1
Physical hazards		0
		B

## 16. Other information

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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