



May be used to comply with OSHA's Hazard Communication Standard(HCS), 29 CFR 1910. 1200. Standard must be consulted for specific requirements.

## MATERIAL SAFETY DATA SHEET

**Product Name:** TUF-CLOTH™

**Product Code:** 91010, 91011

**Effective Date:** 1/4/2012

Sentry Solutions LLC., 5 Souhegan St., PO Box 214 Wilton, NH 03086 USA

603/654-3001 FAX 603/654-3003

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### HMIS Symbol

Health 1  
Flammability 2  
Reactivity 0

### HMIS

Severe 4  
Serious 3  
Moderate 2  
Slight 1  
Minimal 0

### NFPA

Extreme  
High  
Moderate  
Slight  
Minimal

### NFPA Symbol

Toxicity 1  
Fire 2  
Reactivity 0

### Product Description

Treated cloth packaged in a sealed air tight bag. (Cloth is 12" x 12" square)

### Composition

50% Proprietary ingredients mixed with 10% Mineral Spirits (CAS NO. 64742-88-7) by weight. NOTE: Proprietary ingredients are non-hazardous and biodegradable.

### Regulatory Information

U.S. TSCA Inventory: All components are listed on the TSCA Inventory.

SARA Title III, Hazard Categories(311/312): Fire hazard, Immediate (Acute) Health Hazard. Delayed (chronic) Health Hazard. Not regulated by California Prop. 65, New Jersey Right-to-Know Chemical List, Pennsylvania right-to-Know Chemical List.

**Canada: All components are listed in the Domestic Substances List.**

### Non Hazardous Ingredients Identity Information:

Neutralized, oxygenated hydrocarbon.

Cloth, woven polyester fabric.

### Hazardous Ingredients Identity Information:

Approximately 10% Mineral Spirits (CAS NO. 64741-65-7) by weight. Note: As cloth is used the amount of mineral spirits will decrease due to evaporation.

### Acute Toxicity Data\*

Note: For fluid component only.

Acute Oral LD50

>25ml/kg (Rat)

Acute Dermal LD50

>5ml/kg (Rabbit)

Acute Inhalation LC50

No deaths at 592 PPM/4H (Rat)

\* Based on testing data for liquid form of mineral spirits or similar. NOTE: Product is treated cloth.

### Health and First Aid Information

The health effects listed here are consistent with requirements under the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Non-mineral spirits portion is non-hazardous based on testing of analogous products.

**Eye Contact:** Product is expected to be non-irritating to practically non-irritating to eyes.

**First Aid Measure:** Flush with water for at least 15 minutes. If irritation occurs consult physician.

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**Skin Contact:** Product may be slightly to moderately irritating to the skin. Use of chemical resistant gloves will avoid any irritation. Prolonged or repeated contact can result in defatting and drying of skin which may result in skin irritation and dermatitis.

**First Aid Measures:** Wash with water and soap. If irritation occurs consult doctor.

**Aggravated Medical Conditions:** Preexisting eye and skin disorders may be irritated by exposure to this product

**Inhalation:** High vapor concentration may result in CNS Depression. Use product with adequate ventilation.

**First Aid Measures:** If exposed to high vapor concentration remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing and consult physician.

**Ingestion:** Not Applicable. Product is treated cloth.

#### Supplement Health Information

**Inhalation:** Male rats exposed to vapors of a similar solvent (in liquid form) for 6 weeks showed evidence of kidney damage. The relevance of this effect to man is unknown. In a 13 week inhalation study with male rats similar kidney effects were seen along with a low grade anemia. **Signs and Symptoms of Overexposure:** nausea, dizziness, irritation of nose and throat, watering of eyes

#### Physical Data

**Minimum Flash point** 205°F/96°C (COC), Note: As cloth is used the amount of mineral spirits will decrease due to evaporation.

**Appearance:** Soft, smooth-textured cloth

**Melting Point:** Not applicable, product is treated cloth

**Odor:** Mild

**Boiling Point:** Not applicable, product is treated cloth

**Solubility in water:** negligible

**Specific Gravity:** Not applicable, product is treated cloth

**Vapor pressure:** Not applicable, product is treated cloth.

**Vapor density:** Not applicable, product is treated cloth.

**Evaporation rate:** Not applicable, product is treated cloth.

#### Occupational Exposure Limits

TLV 100 PPM (525mg/m3) This value is for liquid mineral spirits, note that product is treated cloth.

#### Fire and Explosion Data

Flash point 205°F/96°C

Flammable Limits % Volume in Air Lower: 1 Upper: 7

LFL: Not determined

UFL: Not determined

#### Fire Fighting Measures

Extinguishing Media: CO2, dry chemical, water, water fog, sand

#### Reactivity Data

**Stability:** Stable, Product is treated cloth.

**Conditions to Avoid:** Exposure to open flames

**Incompatibility (Materials to Avoid):** Strong oxidizing agents

**Hazardous decomposition products or byproducts:** Combustion may result in undefined organics, oxides of carbon, etc.

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**Hazardous Polymerization:** Will not occur

Waste Disposal Method

Dispose of in accordance with local and state government practices.

Handling Precautions

Keep product in original sealed packaging when not in use.

Avoid contacting eyes with cloth.

Wash hands after using.

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## MATERIAL SAFETY DATA SHEET

2012

May be used to comply with OSHA's Hazard Communication Standard (HCS), 29 CFR 1910. 1200. Standard must be consulted for specific requirements.

**Product Name:** SMOOTH-KOTE™

**Product Code:** 91070, 91030, 91090 **Date:** 01/05/2012

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<u>HMIS Symbol</u>	<u>HMIS</u>	<u>NFPA</u>	<u>NFPA Symbol</u>
Health 3	Severe 4	Extreme	Toxicity 1
Flammability 3	Serious 3	High	Fire 3
Reactivity 0	Moderate 2	Moderate	Reactivity 0
	Slight 1	Slight	
	Minimal 0	Minimal	

### PRODUCT IDENTIFICATION

Product Name: SMOOTH-KOTE  
Chemical name: MIXTURE  
Chemical Family: MoS<sub>2</sub> & Graphite in Isopropanol  
Appearance: Black liquid, alcohol odor.

### COMPOSITION - INGREDIENT INFORMATION

CAS No.	INGREDIENTS	%	CARCINOGENICITY		
			<u>NIP</u>	<u>IARC</u>	<u>OSHA</u>
1317-33-5	Molybdenum Disulfide	<2	N	N	N
7782-42-5	Graphite	<2	N	N	N
71-36-3	n-Butyl Alcohol	>4	N	N	N
67-63-0	Isopropanol	92	N	N	N

### OCCUPATIONAL EXPOSURE LIMITS

<u>CAS NO.</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
1317-33-5	10.00 mg/m <sup>3</sup>	10.00 mg/m <sup>3</sup>
71-36-3	50.00 PPM.	100.00 PPM
7782-42-5	2.00 mg/m <sup>3</sup>	2.50 mg/m <sup>3</sup>
67-63-0	400.00 PPM.	400.00 PPM.

### PHYSICAL AND CHEMICAL PROPERTIES

The following data are approximate or typical values and should not be used for precise design purposes.

VAPOR PRESSURE: 30.00 mm Hg at 20°C.

VAPOR DENSITY (air=1): Greater than 1

SPECIFIC GRAVITY (15.6°C): 0.8

EVAPORATION RATE @ 1ATM, 25°C/77°F (n-Butyl Acetate=1): 2.5

SOLUBILITY IN WATER: Miscible

ph: Not applicable

FREEZING POINT: Not applicable

FLASHPOINT AND METHOD: 52°F/ 11°C Tag Closed Cup

BOILING POINT: 180°F.

PERCENT VOLATILE BY VOLUME: 96%

VISCOSITY: 3 (st@77°F

APPEARANCE: Dark-black liquid.

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### **HANDLING AND STORAGE**

This product is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode. Keep product away from ignition sources such as heat, sparks, pilot lights, static electricity and open flames. Keep container closed. Loosen closure cautiously before opening. Store in a cool and well ventilated place away from incompatible materials. (See Stability and Reactivity Section). Empty containers may retain hazardous properties. Follow all MSDS/Label warnings even after container is emptied.

### **STABILITY AND REACTIVITY**

GENERAL: This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIAL AND CONDITIONS TO AVOID: Amines, caustics, oxidizers and chlorinated compounds.

### **HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW: Variability Among Individuals: Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

#### **POTENTIAL HEALTH EFFECTS:**

INGESTION: Harmful if swallowed.

EYE CONTACT: Irritating, and will injure eye tissue if not removed promptly.

SKIN CONTACT: Frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity.

OTHER SKIN CONTACT: The components of this product are not expected to be absorbed through the skin.

INHALATION: Vapors and mists generated from this product may be harmful if inhaled. Vapors and mists irritate eyes, nose and throat. Dusts generated from sanding and grinding on surfaces coated with this product may be harmful if inhaled.

### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation to maintain exposure below TLV(s) or buildup of explosive concentrations. Overexposures to vapors and mists may be prevented by ensuring ventilation controls, local exhaust and/or fresh air entry. No smoking, flame or other ignition sources. Use explosion-proof ventilation as required to control particulate concentrations. NIOSH/MSHA Schedule TC-23C- air purifying or a Schedule TC-19C- air supplied respirator may also be used to reduce exposures. Read the manufacturer's instructions and literature carefully to determine the type(s) of airborne contaminant(s) against which the respirator is effective and how it is to be properly fitted.

EYE PROTECTION: Vapor tight chemical-type splash goggles should be worn when the possibility exists for eye contact due to splashing or spraying of liquid or the generation of airborne particles or vapors.

SKIN PROTECTION: Wear protective clothing, including an impermeable apron or disposable suit and gloves. This protective equipment should be constructed of material(s) which are appropriate to prevent contact with the chemicals listed in the ingredient section of the MSDS.

### **FIRST AID MEASURES**

INGESTION: If swallowed, do not induce vomiting. Keep at rest. Get medical attention.

SKIN CONTACT: If excessive skin contact with this product occurs, flush immediately with plenty of water, followed by washing with soap and water. Remove contaminated clothing, including shoes after flushing has begun.

EYE CONTACT: If this product is splashed into the eyes, flush immediately with plenty of water for at least 15 minutes. Get medical attention.

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**INHALATION:** If excessive amounts of vapors or mists from this product are inhaled, remove to fresh air. Apply artificial respiration and other supportive measures as required. Get prompt medical attention. Consult a poison center, emergency room or lung specialist for additional information and guidance.

### **FIRE FIGHTING MEASURES**

**FLASHPOINT AND METHOD:** 52°F/11°C Tag Closed Cup

**FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR):**

**ESTIMATED VALUES:** Lower flammable limits 2.0% Upper flammable limit 12%

**GENERAL HAZARD:** Flammable/combustible material; may be ignited by heat, sparks or flame. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

**SMALL FIRE FIGHTING INSTRUCTIONS:** Dry chemical, CO<sub>2</sub>, water spray (fog), foam.

**LARGE FIRE FIGHTING INSTRUCTIONS:** Water spray, fog or alcohol resistant foam.

**FIRE FIGHTING EQUIPMENT:** Positive pressure self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

**HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:** Oxides of carbon; oxides of sulfur.

### **ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas.

**SMALL SPILLS:** Take up with sand, earth or other noncombustible absorbent material.

**LARGE SPILLS:** Dike far ahead of liquid spill for later disposal.

### **TOXICOLOGICAL INFORMATION**

**CAS INGREDIENTS:** Not available. (LD50 is for oral rat).

### **ECOLOGICAL INFORMATION**

NOT AVAILABLE.

### **DISPOSAL CONSIDERATIONS**

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and non-hazardous wastes.

### **TRANSPORTATION INFORMATION**

**D. O. T.** (Department of Transportation) 49 CFR : ORM-D Consumer Commodity

**IATA Proper Shipping Name:** Consumer Commodity **IATA ID (UN) Number:** ID 8000 Consumer Commodity

**HAZARD CLASS:** Class 9 Miscellaneous ,

**IMO:** UN 1993 Flammable Liquid, n.o.s. ( Isopropanol , n-Butyl Alcohol ) , Class 3 Packing Group II

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**REGULATORY INFORMATION****SARA TITLE 3: SECTION 313 INFORMATION (40 CFR 372)**

This product contains a chemical which is listed in Section 313 above DE MINIMIS concentrations.

<b><u>CAS NUMBER</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>%</u></b>
67-63-0	Isopropanol	> 95
71-36-3	n-Butyl Alcohol	> 4

TSCA - All components of this product are listed or are excluded from listing on the U. S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**OTHER INFORMATION**

If this material is part of a multiple component system, read the MSDS (s) for the other component(s) before blending as the resulting mixture may have the hazards of all of its parts.

**NOTICE:** This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.



## MATERIAL SAFETY DATA SHEET

## HI-SLIP GREASE™

May be used to comply with OSHA's Hazard Communication Standard(HCS), 29 CFR 1910. 1200. Standard must be consulted for specific requirements.

### 1. Chemical Product and Company Identification

**Product Name:** HI-SLIP GREASE™ **Product Code:** 91050, 91051 **Effective Date:** 01/05/13

**Chemical Family:** Hydrocarbon **Chemical Name:** Lubricating Grease

**Product Appearance & Odor:** Black/ gray, smooth paste: Bland odor

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### 2. Composition/Information on Ingredients

Proprietary Formulation

This product does not contain carcinogens or mutagens as defined by OSHA or IARC.

### 3. Hazards Identification

This product does not contain carcinogens or mutagens as defined by OSHA or IARC.

### 4. First Aid Measures

Product is expected to be non-irritating or practically non-irritating to eyes and skin.

Ingestion: Do not induce vomiting. Get medical attention.

Dermal: Flush with soap and water; remove and launder contaminated clothing.

Eye Contact: Flush with plenty of water for at least 15 minutes; get medical attention.

### 5. Fire Fighting Measures

Flash Point : 470°F/243°C Test Method : D-92

Extinguishing Media: CO<sub>2</sub>, Water Fog, Dry chemical, Foam, Earth and Sand

### 6. Accidental Release Measures

Absorb with sand or inert material; sweep or scoop up and remove.

### 7. Handling and Storage

Wash thoroughly after handling. Do not get in eyes or on clothing. Keep away from sparks and open flames. Avoid prolonged inhalation of mists or vapors.

Storage Conditions: No special conditions.

### 8. Exposure Controls/Personal Protection

Use with adequate ventilation. Use face shield. For glove protection, use neoprene, butyl rubber, pva or polyethylene.

### 9. Physical and Chemical Properties

Specific Gravity: 0.85 @ 60°F/16°C

Autoignition Temperature/Fire Point 510°F/265°C

Boiling Point: 700°F/371°C

Solubility in H<sub>2</sub>O: Nil

Odor: Bland

Appearance: Silvery gray, black..

### 10. Stability and Reactivity

Stability: Stable

Incompatibility: Avoid contact with strong oxidizers.

Thermal Decomposition: May release Oxides of Carbon and sulfur.

Conditions to Avoid: Open flames

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**11. Toxicological Information**

This product contains no carcinogens or mutagens as defined by OSHA or IARC. All components are listed on the TSCA Inventory, and Canadian DSL Chemical Inventory. This Product contains no controlled substance under WHMIS.

Condition to avoid: Excessive skin contact. Primary Routes of Entry: Skin contact.

**SARA Title III**, Section 313, Reportable Quantities:

**WHMIS Ingredient Disclosure**, Reportable Quantities:

Compound	CAS#	% Wt.	Compound	CAS#	% Wt.
			Molybdenum Disulfide	1317-33-5	5.0

California Proposition 65 Chemicals:

Compound	CAS#	% Wt.
None		

**12. Ecological Information**

Not determined.

**13. Disposal Considerations**

This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261.

**14. Transport Information**

This product does not contain any DOT regulated ingredients. May be shipped normally as a nonhazardous material.

**15. Regulatory Information**

U.S. TSCA Inventory: All components are listed on the TSCA Inventory.

SARA Section 313 Reportable Quantities: None

Canada: All components are listed in the Domestic Substances List.

**16. Other Information**

<u>HMIS</u>				<u>NFPA</u>	
Health	1	Severe	4	Extreme	Toxicity 1
Flammability	1	Serious	3	High	Fire 1
Reactivity	0	Moderate	2	Moderate	Reactivity 0
		Slight	1	Slight	
		Minimal	0	Minimal	

The information contained herein is based on the data available to us and is believed to be correct. However, Sentry Solutions LLC. makes no warranty, express or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Sentry Solutions LLC. assumes no responsibility for injury from the use of the product described herein.



May be used to comply with OSHA's Hazard Communication Standard(HCS), 29 CFR 1910.1200. Standard must be consulted for specific requirements.

## MATERIAL SAFETY DATA SHEET

**Product Name:** BP2000 POWDER™

**Product Code:** 91040

**Effective Date:** 08/05/2010

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**SUBSTANCE:** Molybdenum Disulfide CAS # 01317-33-5; EINECS # : 215-263-9

**TRADE NAME:** BP2000 POWDER

**CHEMICAL FAMILY:** Inorganic Salt

### COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Molybdenum Disulfide CAS #: 01317-33-5 EINECS # : 215-263-9 %: 99+

### HAZARDS IDENTIFICATION

<u>HMIS Symbol</u>	<u>HMIS</u>	<u>NFPA</u>	<u>NFPA Symbol</u>
Health 1	Severe 4	Extreme	Toxicity 1
Flammability 1	Serious 3	High	Fire 1
Reactivity 0	Moderate 2	Moderate	Reactivity 0
	Slight 1	Slight	
	Minimal 0	Minimal	

EMERGENCY OVERVIEW: Odorless, black, lustrous powder. No significant target effects reported.

POTENTIAL HEALTH EFFECTS:

SHORT TERM EXPOSURE: May cause irritation to skin and eyes.

LONG TERM EFFECTS: No information available on significant adverse effects.

CARCINOGEN STATUS: OSHA: N

NTP: N

IARC: N

### FIRST AID MEASURES

**INHALATION:** FIRST AID - Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Get medical attention if needed.

**SKIN CONTACT:** FIRST AID - Remove contaminated clothing immediately. Wash affected area with soap or mild detergent and large amounts of water until all traces of chemical remains. Get medical attention if needed.

**EYE CONTACT:** FIRST AID - Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids until no evidence of chemical remains. Get medical attention if needed.

**INGESTION:** FIRST AID - If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention if needed.

### FIRE FIGHTING MEASURES

**FIRE AND EXPLOSION HAZARD:** Slight fire hazard when exposed to heat or flame.

**EXTINGUISHING MEDIA:** Extinguish using agent suitable for type of surrounding fire.

**FIREFIGHTING:** No acute hazard. Move container from fire area if possible. Avoid breathing vapors or dusts; keep upwind.

**FIREFIGHTING PROTECTIVE EQUIPMENT:** Full firefighting turn-out gear (bunker gear). Any supplied-air respirator with full face-piece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full face-piece.

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### **ACCIDENTAL RELEASE MEASURES**

**OCCUPATIONAL SPILL:** For large spills, sweep up with a minimum of dusting and place into suitable clean, dry containers for reclamation or later disposal. Residue should be cleaned up using a high-efficiency particulate filter vacuum.

### **HANDLING AND STORAGE**

**STORAGE:** Observe all federal, state and local regulations when storing or disposing of this substance. Store away from incompatible substances.

### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMITS:** Molybdenum, Insoluble Compounds (as Mo):

10 mg/m<sup>3</sup> OSHA(total dust), 10 mg/m<sup>3</sup> ACGIH TWA, 15 MG/M<sup>3</sup> DFG MAK TWA (total dust),  
150 mg/m<sup>3</sup> DFG MAK 30 minute peak, average value, 1 time/shift

**VENTILATION:** Provide local exhaust ventilation and/or general dilution ventilation to meet published exposure limits.

**EYE PROTECTION:** Employee should wear splash-proof or dust-resistant safety goggles to prevent eye contact with the substance.

**EMERGENCY EYE WASH:** Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain within the immediate work area for emergency use.

**CLOTHING:** Protective clothing not required. Protective gloves not required but recommended.

**RESPIRATOR:** The following respirators are recommended based on information found in the physical data, toxicity and health effects sections. They are ranked in order from minimum to maximum respiratory protection. The specific respirator selected must be based on contamination levels found in the work place, must be based on the specific operation, must not exceed the working limits of the respirator and must be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

Any dust, mist, and fume respirator.

Any chemical cartridge respirator with a dust, mist and fume filter.

Any powered air-purifying respirator with a dust, mist and fume filter.

Any type 'C' supplied-air respirator with a full face-piece operated in pressure-demand or other positive pressure mode or with a full face-piece, helmet or hood operated in continuous-flow mode.

Any self-contained breathing apparatus with a full face-piece operated in pressure-demand or other positive pressure mode.

### **PHYSICAL AND CHEMICAL PROPERTIES**

**DESCRIPTION:** Odorless, dark gray to black powder.

**MOLECULAR WEIGHT:** 160.06

**MOLECULAR FORMULA:** MoS<sub>2</sub>

**MELTING POINT:** >599F/>315C (oxidizes) **VAPOR PRESSURE:** Approx. 0 @ 20C

**SPECIFIC GRAVITY:** 4.80 @ 14C **WATER SOLUBILITY:** Insoluble

**SOLVENT SOLUBILITY:** Soluble in hot sulfuric acid, aqua regia, nitric acid; insoluble in dilute acid.

**AUTOIGNITION TEMPERATURE:** 554F/290C(layer); 1058F/570C(cloud)

### **STABILITY AND REACTIVITY**

**REACTIVITY:** Stable under normal temperatures and pressures.

**CONDITIONS TO AVOID:** Prevent dispersion of dust in air.

**INCOMPATIBILITIES:**

**HYDROGEN PEROXIDE:** Vigorous or violent reaction.

**OXIDIZERS(STRONG):** Fire and Explosion Hazard.

**POTASSIUM NITRATE:** Forms Explosive Mixture.

**HAZARDOUS DECOMPOSITION:** Thermal decomposition may release toxic and/or hazardous gases.

**POLYMERIZATION:** Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

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**TOXICOLOGY INFORMATION**

CARCINOGEN STATUS: None

ACUTE TOXICITY LEVEL: No data available.

TARGET EFFECTS: No data available.

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE: No specific data available. Insoluble molybdenum compounds are characterized by low toxicity.

CHRONIC EXPOSURE: 25 one hour exposures to 490mg/m<sup>3</sup> caused no effects in all the animals tested except one which died after the third exposure.

SKIN CONTACT:

ACUTE EXPOSURE: Dermatitis has not been reported in exposed workers.

CHRONIC EXPOSURE: No data available.

EYE CONTACT:

irritating ACUTE EXPOSURE: No specific data available. Some insoluble molybdenum compounds are to the eyes.

CHRONIC EXPOSURE: No data available.

INGESTION:

ACUTE EXPOSURE: No data available.

CHRONIC EXPOSURE: Rats fed up to 500mg daily for 44 days showed no toxic signs and all gained weight.

**ECOLOGICAL INFORMATION**

ACUTE AQUATIC TOXICITY: Tests conducted in 1990 at levels up to 750mg/l powdered MoS<sup>2</sup> resulted in 0 mortality to rainbow trout (salmo gairdneri).

**DISPOSAL INFORMATION**

WASTE DISPOSAL: Observe all federal, state and local regulations when disposing of this substance.

**TRANSPORTATION INFORMATION**

No classification currently assigned.

**REGULATORY INFORMATION**

U. S. REGULATIONS:

TSCA INVENTORY STATUS:	Y
TSCA 12(b) EXPORT NOTIFICATION:	Not listed
CERCLA SECTION 103 (40 CFR 302.4):	N
SARA SECTION 302 (40 CFR 355.30):	N
SARA SECTION 304 (40 CFR 355.40):	N
SARA SECTION 313 (40 CFR 372.65):	N
OSHA PROCESS SAFETY (29 CFR 1910.119):	N
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40 CFR 370.21):	
ACUTE HAZARD:	N
CHRONIC HAZARD:	N
FIRE HAZARD:	N
REACTIVITY HAZARD:	N
SUDDEN RELEASE HAZARD:	N

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:	N
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**OTHER**

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.