

# MOLY SHIELD Anti-Seize Compound SAFETY DATA SHEET

**SECTION 1: IDENTIFICATION** 

Manufacturer/ Supplier: Adhesive R & D Inc. 4603 Anderson Drive Eau Claire, WI. 54703 Phone : 715-832-4557

**Product Use**: Anti-Seize Compound **Restriction on Use**: None known

SDS Date of Preparation: June 1, 2015

## SECTION 2: HAZARDS IDENTIFICATION

GHS Classification (Hazcom 2012): Not Hazardous Label Elements: Not hazardous in accordance with the OSHA Hazard Communication Standard (29CFR 1910.1200).

Hazard Phrases: None

Precautionary Phrases: None

Other Hazards: None

Chemical Name	CAS#	%
Synthetic Base Oil	NJTSRN#1210-01	35-55
Molybdenum disulfide	1317-33-5	15-30
Graphite	7782-42-5	15-30
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5-15
Rust inhibitor	Mixture	1-3

The specific identity and/or exact percentage of composition has been withheld as a trade secret.

# SECTION 4: FIRST AID MEASURES

**Eye:** Flush eyes with water, holding the eyelids apart. Get medical attention if irritation develops or persists.

Skin: Wash thoroughly with plenty of water. Get medical attention if irritation persists.

**Inhalation:** Remove to fresh air and keep comfortable for breathing. If irritation occurs, get medical attention.

Ingestion: If large amounts ingested, seek medical attention.

Most Important symptoms and effects, both acute and delayed: None known.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention generally not required.

### SECTION 5: FIRE-FIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media: Use foam, carbon dioxide or dry chemical.

**Special Hazards Arising from the Chemical:** This compound will not burn unless it is pre-heated. Water fog may be used to cool the containers but do not spray directly into large containers of burning liquids as frothing may occur. Dense smoke and noxious or toxic fumes may be generated in a fire. The thermal decomposition products may yield oxides of carbon and sulfur. Noxious or toxic fumes may be generated, some of which may be toxic or irritating.

**Special Equipment and Precautions for Fire-Fighters:** Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate personal protective equipment. Use caution: slip hazard.

Environmental Hazards: Report spills and releases as required to appropriate authorities.

**Methods and Material for Containment and Cleaning Up:** Because of its viscous nature, this product is not expected to leak or spill. Collect liquid spill with an inert absorbent material and place into a suitable container for disposal. Clean area thoroughly with mineral spirits.

#### SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid prolonged skin contact Do not transfer to unlabeled containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Store away from extreme heat and open flames. Store away from oxidizers.

Chemical Name	Exposure Limits
Synthetic Base Oil	5 mg/m3 TWA ACGIH TLV (inhalable) 5 mg/m3 TWA OSHA PEL
Molybdenum disulfide (as molybdenum and insoluble compounds, as Mo)	30 mg/m3 TWA ACGIH TLV (inhalable) 3 mg/m3 TWA ACGIH TLV (respirable) 15 mg/m3 TWA OSHA PEL (total dust)
Graphite	2 mg/m3 TWA ACGIH TLV (respirable) 15 mg/m3 TWA OSHA PEL (total dust) 5 mg/m3 TWA OSHA PEL (respirable fraction)
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA ACHIH TLV (inhalable) 5 mg/m3 TWA OSHA PEL

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ust inhibitor	None Established
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**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the exposure limits. If the product is used at high temperatures, local exhaust ventilation may be required.

### Individual Protection Measures:

**Respiratory Protection:** In operations where the occupational exposure limits are exceeded, a NIOSH approved respirator with organic vapor/particulate cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Skin Protection:** Impervious gloves such as rubber or nitrile recommended where needed to avoid prolonged skin contact .

Eye Protection: Safety glasses or goggles recommended where needed to avoid eye contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES		
Appearance: Bluish gray colored paste	Vapor Density (air = 1): Not available	
Odor: Slight odor	Specific Gravity: 1.3	
Odor Threshold: Not established	Water Solubility: Not soluble	
pH: Not available	Octanol/Water Partition Coefficient: Not	
	available	
Melting Point/Freezing Point: Not available	Autoignition Temperature: Not available	
Boiling Point: Not available	Decomposition Temperature: Not available	
Flash Point: >340°F	Viscosity: Not available	
Evaporation Rate: Not available	Explosion Properties: None	
Flammable Limits:	Oxidizing Properties: Not oxidizing	
LEL: Not established		
UEL: Not established		
Vapor Pressure: Not established	Aerosol Fire Protection Level: Not applicable	
VOC Content: <0.5%	Flammability (solid, gas): Not available	

#### SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known

Conditions to Avoid: Use with strong oxidizing chemicals such as concentrated acids.

Incompatible Materials: Avoid strong oxidizing agents, bromates, chlorates and iodates.

**Hazardous Decomposition Products:** The thermal decomposition products may yield oxides of carbon and sulfur. Noxious or toxic fumes may be generated, some of which may be toxic or irritating.

#### SECTION 11: TOXICOLOGICAL INFORMATION

## Potential Health Effects:

Eye: May cause mild irritation.

Skin: Prolonged contact may cause irritation and drying of the skin.

**Inhalation:** No adverse effects expected at ambient temperatures. Inhalation of vapors and fumes from thermal decomposition may cause respiratory irritation and metal fume fever with symptoms of fever and chills.

**Ingestion:** Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea.

Chronic Hazards: Prolonged inhalation of thermal decomposition products may result in lung damage.

**Carcinogen Status:** None of the components of this product are listed as carcinogens by IARC, NTP or OSHA.

#### Acute Toxicity Values:

Molybdenum disulfide: Oral rat LD50 > 2000 mg/kg, inhalation rat LC50 > 2.82 mg/L, dermal rat LD50 > 2000 mg/kg

Graphite: Oral rat LD50 > 2000 mg/kg, inhalation rat LC50 > 2 mg/L

Distillates (petroleum), hydrotreated heavy naphthenic: Oral rat LD50 > 5000 mg/kg, inhalation rat LC50: 2.18 mg/L, dermal rabbit LD50 > 2000 mg/kg

### SECTION 12: ECOLOGICAL INFORMATION

#### **Ecotoxicity:**

Molybdenum disulfide: Pimephales promelas LC50: 609.1 mg/L/96hr Graphite: Danio rerio LC50 > 100 mg/L/96hr Distillates (petroleum), hydrotreated heavy naphthenic: Pimephales promelas LL50 > 100 mg/L/96hr.

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: None known

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose in accordance with all local, regional and national regulations.

#### **SECTION 14: TRANSPORT INFORMATION**

DOT Proper Shipping Name: Not regulated DOT Technical Name: None DOT Hazard Class: None UN Number: None DOT Labels Required (49CFR172.101): None

IMDG Shipping Description: Not regulated ID Number: None Hazard Class: None Packing Group: None Labels Required: None Marking Required: None Placards Required: None

ICAO/IATA Shipping Description: Not regulated ID Number: None Hazard Class: None Packing Group: None

### SECTION 15: REGULATORY INFORMATION

#### Safety, health, and environmental regulations specific for the product in question.

**CERCLA Hazardous Substances (Section 103)/RQ:** This product is not subject to reporting requirements under CERCLA. However, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Not Hazardous

**SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313: None.

**EPA TSCA Inventory:** All of the components of this product are listed on the TSCA inventory.

**CALIFORNIA PROPOSITION 65:** This product is not known to contain listed chemicals.

#### **SECTION 16: OTHER INFORMATION**

Revision Summary: New format to comply with OSHA Hazcom 2012

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