Safety Data Sheet

IZ-248

Section 1: Product and Company Identification

Manufacturer	Ideas Additives LLC 625 S Main St. Lombard, IL 60148		
Telephone	(630) 620-2010	**Fax**	(630) 620-2014
Product Names	IZ-248		
Recommended Use	Friction Reducer		
Restrictions on Use	For industrial/commercial use only		
Emergency Contact / Number	(630) 620-2010		

Section 2: Hazard Identification

Hazard Classifications Not classified.

Signal word No signal word.

Precautionary statement(s)

Prevention	Not applicable.
Response	Not applicable.
Disposal	Not applicable.

Section 3: Composition/Information on Ingredients

Component	CAS#	Concentration
Molybdenum, N,N-bis(C11-14-branched and linear alkyl)carbamodithioate oxo thioxo complexes	906665-74-5	20 – 50
Petroleum process oil, <3.0% DMSO extractable material	64742-52-5	20 – 50

Section 4: First Aid Measures

Eye Contact
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Skin Contact
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Most Important Symptoms / Effects
No known significant effects or critical hazards.
Indication of Immediate Medical Attention and Special Treatment, If Necessary
Eye damage

Section 5: Firefighting Measures

Suitable and Unsuitable Extinguishing Media
Product will burn at high temperatures. Use water spray or fog, dry chemical or foam. High pressure water stream may spread fire. No known unsuitable materials.
Specific Hazards Arising from the Chemical

May produce CO, CO_2, decomposition products, flammable gases, and acrid vapors in a fire. Closed containers may rupture or explode when exposed to extreme heat.

Specific Protective Equipment and Precautions for Fire-Fighters

Avoid breathing vapors and mists. Use water spray to cool fire-exposed containers, structures and to protect personnel. Do not enter enclosed area without a positive pressure, NIOSH-approved self-contained breathing apparatus. Closed containers may explode from high heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

Affected area may be slippery. Isolate release area and keep unnecessary or untrained people away. Avoid skin or eye contact with spilled material. See Section 8 for personal protection gear.

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

Stop leak if you can without risk. Do not discharge to the environment. Transfer to labeled, sealable containers for product recovery or safe disposal. Small spills can be handled using absorbent material and transferred to containers for use or disposal. Larger spills should be diked and absorbed with binding agents such as sand or vermiculite to prevent runoff to the environment or sewer.

SECTION 7: HANDLING AND STORAGE

Handling and Storage

Wear protective clothing to prevent or minimize contact. Use good ventilation and follow all procedures and precautions for handling chemicals. Best stored in a dry place at 50 – 90 °F. Reseal lid on container after use. Store only in original or compatible, clearly labeled container. This product has a tendency upon standing to exhibit some crystallization or gelling. If this happens, the product may be re-liquified by agitation and heating at 100 to 125°F.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits

Component Name	ACGIH	OSHA
Petroleum process oil, <3.0% DMSO extractable material	TWA: 5 mg/m³ 8 hours	TWA: 5 mg/m³ 8 hours.
Molybdenum, bis(C11-14 branched and linear alkyl) Carbamodithioate Oxothioxo Complexes	TWA: 10 mg/m³, (as Mo) 8 hours	TWA: 15 mg/m³, (as Mo) 8 hours

Engineering Controls

Use appropriate ventilation to maintain good air quality; avoid breathing aerosols or mists; use appropriate respirator if applicable.

Eye and Face Protection

Wear safety glasses or chemical safety goggles; use face shield when working with large amounts or when splashing is possible.

Skin Protection

Wear protective gloves and appropriate clothing to avoid or minimize contact.

Respiratory Protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: Vapor and dust respirator.

General Hygiene

Follow accepted work practices for handling chemicals. Do not eat, drink, or smoke in areas where this product is used or stored. Wash thoroughly with soap and water after task or shift, when using the restroom or before eating.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State	Brown liquid	**Flash Point**	160°C (320°F) [Pensky-Martens.]
Specific Gravity (Water=1)	0.97	**Upper Flammability Limits**	Not Determined
Evaporation Rate (ether = 1)	Not Determined	**Lower Flammability Limits**	Not Determined
pH	Not Applicable	**Auto-ignition Temperature**	Not Determined
Solubility in Water	Insoluble	**Decomposition Temperature**	Not Determined
Odor	Not Determined	**Vapor Pressure (mm Hg, 25 °C)**	0.07 mm Hg
Odor Threshold	Not Determined	**Vapor Density (Air-=1)**	Not Determined
Melting/Freezing Point	Not Determined	**Partition Coefficient (n-octanol/water)**	Not Determined
Boiling Range	Not Determined	**Viscosity (mm^2 /25 °C)**	651 cSt
Initial Boiling Point	Not Determined	**Critical Temperature**	Not Determined
Note: Physical and chemical properties are provided for safety, health and environmental considerations and do not fully represent product specifications. Those should be requested separately.			

SECTION 10: STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability Stable under normal storage and use conditions
Possibility of Hazardous Reactions Will not react under normal conditions.
Conditions to Avoid Extreme hot or cold temperatures, open flame
Incompatible Materials No specific data.
Hazardous Decomposition Products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity Effects
Both molybdenum (insoluble) and oil mist (mineral) are believed to have a low order of toxicity. Molybdenum at high oral dosages has produced weight loss, anorexia, liver and kidney damage in animals but few signs and symptoms in humans have been recorded during normal usage. Oil mists (unless contaminated with endotoxins or high volatile organics) have produced few adverse effects. Mild decrements in lung function, however, have more recently been reported with repeated elevated exposures.
Chronic Toxicity Effects
molybdenum, bis(C11-14 branched and linear alkyl) carbamodithioate oxo thioxo complexes: In a study performed to the standardized guidelines OECD 422, the No- observed-adverse-effect-level (NOAEL) of the test item for systemic toxicity effects was considered to be 1000 mg/kg/day.
Carcinogenicity
No known significant effects or critical hazards.

SECTION 12: ECOLOGICAL INFORMATION

The product's main component (CAS 906665-74-5) is toxic to aquatic life with long lasting effects

SECTION 13: DISPOSAL CONSIDERATIONS

Do not dispose to sewer. Avoid release to the environment. Dispose of via a licensed waste disposal contractor. Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA. Dispose of used containers in a licensed facility.

SECTION 14: TRANSPORT INFORMATION

DOT Not Regulated
IMDG Not Regulated
IATA Not Regulated

SECTION 15: REGULATORY INFORMATION

Chemical Inventories	All ingredients are listed or exempt from listing on the TSCA, active (U.S.) and DSL and/or NDSL (Canada) inventories.
Section 302 Extremely Hazardous Chemicals	None
SARA 311/312 Reporting Categories	None
SARA 313 Reportable Ingredients	None
CERCLA	None
(Comprehensive Environment Response, Compensation and Liability Act)	
California Prop 65	Not listed

SECTION 16: OTHER INFORMATION

NFPA Rating	Health=1; Flammability=1; Reactivity=0
Department Issuing SDS	Health and Safety

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