

SAFETY DATA SHEET

1. Identification Product identifier

Moly-Graph® Extreme Pressure Multi-Purpose Grease

Other means of identification
Product codeProduct codeSL3146Recommended useLubricating greaseRecommended restrictionsNone known.Manufacturer/Importer/Supplier/Distributor information

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
	^	
Signal word	Warning	
Hazard statement	May cause an allergic skin reaction. Causes serious eye irritation.	
Precautionary statement		
Prevention		y after handling. Contaminated work clothing must not be protection/face protection. Wear protective gloves.
Response	contaminated clothing before reuse. If in	kin irritation or rash occurs: Get medical attention. Wash eyes: Rinse cautiously with water for several minutes. easy to do. Continue rinsing. If eye irritation persists: Get
Storage	Store away from incompatible materials	
Disposal	Dispose of contents/container in accord	ance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	None known.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
distillates (petroleum), hydrotreated heavy naphthenic		64742-52-5	80 - 90
phosphorodithioic acid, o,o-di-c1-14-alkyl esters, zinc salts		68649-42-3	1 - 3
calcium bis(dinonylnaphthalenesulphonate)		57855-77-3	< 1

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Provide oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	Use water spray to cool unopened containers.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	The product is immiscible with water and will spread on the water surface. Prevent entry into waterways, sewer, basements or confined areas.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	Form
distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
US. ACGIH Threshold Lim		Value	Form
Components	Туре		-
distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide			
Components	Туре	Value	Form
distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
ological limit values	No biological exposure limits noted for	o ()	
posure guidelines	Occupational Exposure Limits are not		
opropriate engineering ontrols	Good general ventilation (typically 10 should be matched to conditions. If ap or other engineering controls to mainta exposure limits have not been establis eyewash station.	oplicable, use process enclose ain airborne levels below reco	ures, local exhaust ventilation, mmended exposure limits. If
dividual protection measure	s, such as personal protective equipme	ent	
Eye/face protection	Wear safety glasses with side shields	(or goggles).	
Skin protection			
Hand protection	Wear protective gloves such as: Rubb	per. Latex.	
Other	Wear appropriate chemical resistant of	clothing.	
Respiratory protection	If engineering controls are not feasible NIOSH-approved cartridge respirator breathing apparatus in confined space determine actual employee exposure	with an organic vapor cartridg es and for emergencies. Air m	e. Use a self-contained
Thermal hazards	Wear appropriate thermal protective c	lothing, when necessary.	
eneral hygiene onsiderations	Always observe good personal hygier and before eating, drinking, and/or sm equipment to remove contaminants. C workplace.	noking. Routinely wash work	clothing and protective

Appearance	
Physical state	Solid.
Form	Grease.

Color	Gray.
Odor	Mild petroleum.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	680 °F (360 °C) estimated
Flash point	> 400 °F (> 204.4 °C) Cleveland Open Cup
Evaporation rate	Slow.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	324146.3 hPa estimated
Vapor density	> 5 (air = 1)
Relative density	0.9
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	500 °F (260 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	Not available.

10. Stability and reactivity

Depetivity	The product is stable and pap reactive under permal conditions of use, storage and transport
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Metal oxides.

11. Toxicological information

Information on likely routes of	exposure			
Inhalation	Prolonged inhalation ma	y be harmful.		
Skin contact	May cause an allergic sk	in reaction.		
Eye contact	Causes serious eye irrita	tion.		
Ingestion	Can cause stomach ach	Can cause stomach ache and vomiting.		
Symptoms related to the physical, chemical and toxicological characteristics	Prolonged or excessive inhalation may cause respiratory tract irritation. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.			
Information on toxicological eff	fects			
Acute toxicity	May cause an allergic sk commercial handling by	in reaction. Expected to be a low hazard for usual industrial or trained personnel.		
Product	Species	Test Results		
Moly-Graph® Extreme Pressure I	Multi-Purpose Grease			
Acute				
Dermal				
LD50	Rabbit	2353 mg/kg estimated		

Product	Species	Test Results
Oral		
LD50	Rat	5824 mg/kg estimated
* Estimates for product may b	e based on additional component data not shown.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation	on.
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any component mutagenic or genotoxic.	ents present at greater than 0.1% are
Carcinogenicity	Based on available data, the classification criteria are	e not met.
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not available.		
US. National Toxicology Pro	ogram (NTP) Report on Carcinogens	
Not available.		
Reproductive toxicity	This product is not expected to cause reproductive o	r developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged exposure may cause chronic effects.	

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude possibility that large or frequent spills can have a harmful or damaging effect on the environ			
Components		Species	Test Results	
distillates (petroleum), hydr	otreated heav	y naphthenic (CAS 64742-52-5)		
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	1000 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	5000 mg/l, 96 hours	
phosphorodithioic acid, o,o	-di-c1-14-alkyl	esters, zinc salts (CAS 68649-42-3)		
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	1 - 5 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales prom	elas) 1 - 5 mg/l, 96 hours	
* Estimates for product may	y be based on	additional component data not shown.		
Persistence and degradability	Not readi	ly biodegradable.		
Bioaccumulative potential	No data a	No data available.		
Mobility in soil	No data a	No data available.		
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal considerat	ions			
Disposal of waste from residues / unused products	container	This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposel site. Dispose in accordance with applicable regulations.		

Disposal of waste from
residues / unused productsThis product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty
containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste
disposal site. Dispose in accordance with all applicable regulations.Hazardous waste codeNot regulated.Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is
emptied. Empty containers should be taken to an approved waste handling site for recycling or
disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

S federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)
Not regulated.	
US. OSHA Specifically Reg	ulated Substances (29 CFR 1910.1001-1050)
Not listed.	
SARA 304 Emergency relea	ise notification
Not regulated.	Section 313 - Toxic Chemical: Listed substance
· · ·	o,o-di-c1-14-alkyl esters, zinc salts (CAS 68649-42-3)
CERCLA Hazardous Substa	
	o,o-di-c1-14-alkyl esters, zinc salts (CAS 68649-42-3)
CERCLA Hazardous Substa	ances: Reportable quantity
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List
Not regulated.	
0	n 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.
Superfund Amendments ar	nd Reauthorization Act of 1986 (SARA)
Section 311/312	Immediate Hazard - Yes
Hazard categories	Delayed Hazard - No Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
S state regulations	
US. California. Candidate C (a))	hemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd
distillates (petroleum), hy	vdrotreated heavy naphthenic (CAS 64742-52-5)
	Substance List
US. Massachusetts RTK - S	
None.	
None. US. California Controlled S	ubstances. CA Department of Justice (California Health and Safety Code Section 11100)
None. US. California Controlled S Not listed.	
None. US. California Controlled S Not listed. US. Rhode Island RTK	ubstances. CA Department of Justice (California Health and Safety Code Section 11100)
None. US. California Controlled S Not listed. US. Rhode Island RTK phosphorodithioic acid, c	
None. US. California Controlled S Not listed. US. Rhode Island RTK phosphorodithioic acid, c US. New Jersey Worker and phosphorodithioic acid, c	ubstances. CA Department of Justice (California Health and Safety Code Section 11100) o,o-di-c1-14-alkyl esters, zinc salts (CAS 68649-42-3) d Community Right-to-Know Act o,o-di-c1-14-alkyl esters, zinc salts (CAS 68649-42-3)
None. US. California Controlled S Not listed. US. Rhode Island RTK phosphorodithioic acid, c US. New Jersey Worker and phosphorodithioic acid, c	ubstances. CA Department of Justice (California Health and Safety Code Section 11100) o,o-di-c1-14-alkyl esters, zinc salts (CAS 68649-42-3) d Community Right-to-Know Act

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s))	Not determined
Consumer products (40 CFR 59, Subpt. C)	Not regulated

State

Consumer products	Not regulated	
VOC content (CA)	Not determined	
VOC content (OTC)	Not determined	

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

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Issue date	02-18-2016
Revision date	02-18-2016
Prepared by	Allison Cho
Version #	03
Further information	Not available.
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
NFPA ratings	

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