PEAK High Temp Moly EP Grease

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 05/01/2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : PEAK High Temp Moly EP Grease

Product code : PGREP14I-01; PGREP5I; PGREP9I

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Grease

1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC
3100 Sanders Road
Northbrook, IL 60062 - USA
T (847) 559-2000
www.oldworldind.com

1.4. Emergency telephone number

Emergency number : 800 424 9300 (United States); 00 1 703 527 3887 (International)
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS classification

Not classified

2.2. Label elements

GHS labelling

Signal word : None

Hazard statements : None

Precautionary statements : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% by wt	GHS classification
distillates (petroleum), hydrotreated heavy naphthenic	(CAS-No.) 64742-52-5	50 - 75	Not classified
distillates (petroleum), hydrotreated heavy paraffinic	(CAS-No.) 64742-54-7	10 - 25	Not classified
residual oils (petroleum), solvent-dewaxed	(CAS-No.) 64742-62-7	<= 10	Acute Tox. 4 (Inhalation:dust,mist), H332
lithium, 12-hydroxyoctadecanoate sebacate complexes	(CAS-No.) 68815-49-6	<= 10	Not classified
graphite	(CAS-No.) 7782-42-5	<= 3	Not classified
molybdenum disulphide	(CAS-No.) 1317-33-5	<= 3	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : ON CONTINUOUS EXPOSURE/CONTACT: May cause respiratory irritation.

Symptoms/effects after skin contact : Contact during a long period may cause light irritation. Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion : Ingestion is likely to be harmful or have adverse effects.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : Do not use a heavy water stream. Will float and can be reignited on water surface.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable. Promotes combustion.

Explosion hazard : Not applicable.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Fight fire with normal precautions from a reasonable distance. Under fire conditions, hazardous fumes will be present.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves). Wear positive pressure self-contained breathing apparatus (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, spray.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product. Plug the leak, cut off the supply. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in a dry place. Store in a well-ventilated place. Keep cool. Keep container closed when not in use. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not store near food, foodstuffs, drugs or potable water supplies.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³ (Mineral oil, pure, highly and severely refined; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction)
OSHA	Not applicable	

distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³ 8 hours. Form: Inhalable fraction
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ 8 hours

lithium, 12-hydroxyoctadecanoate sebacate complexes (68815-49-6)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ 8 hours
OSHA	Not applicable	

graphite (7782-42-5)		
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
ACGIH	Remark (ACGIH)	Pneumoconiosis
OSHA	Remark (OSHA)	(3) See Table Z-3.

molybdenum disulphide (1317-33-5)		
ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (Respirable fraction) 10 mg/m³ (Inhalable fraction)
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (Total Dust)

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Protective goggles. Gloves.

Hand protection:

Wear suitable gloves resistant to chemical penetration

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Semi-solid at room temperature.
Color	:	Dark grey to black
Odor	:	petroleum-like odor
Odor threshold	:	No data available
Relative evaporation rate (butylacetate=1)	:	< 1
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	> 150 °C (> 302 ºF) [Estimated]
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	< 0.0013 kPa (<0.001 mm Hg) [68 ºF (20 ºC)]
Relative vapor density at 20 °C	:	> 10
Specific Gravity	:	0.95
Density	:	0.95 g/cm³ (7.92 lbs/gal)
Solubility	:	Water: Insoluble
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosive limits	:	1 - 7 vol %

9.2. Other information

Other properties	:	Gravity, ºAPI 17 *Estimated* [60 ºF (15 ºC)] . NLGI Grade 2.5.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LD50 oral rat	> 5,000.00 mg/kg bodyweight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 5,000.00 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	> 5.53 mg/l/4h (Rat; Experimental value)

distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	
LD50 oral rat	> 5,000.00 mg/kg

residual oils (petroleum), solvent-dewaxed (64742-62-7)	
LD50 oral rat	> 5,000.00 mg/kg
LD50 dermal rabbit	> 2,000.00 mg/kg
LC50 inhalation rat (mg/l)	2.18 mg/l/4h
ATE US (vapors)	2.18 mg/l/4h
ATE US (dust,mist)	2.18 mg/l/4h

graphite (7782-42-5)	
LD50 oral rat	> 2,000.00 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)
LC50 inhalation rat (mg/l)	> 2,000.00 mg/m³ (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))

molybdenum disulphide (1317-33-5)	
LD50 oral rat	> 6,000.00 mg/kg (Rat, Oral)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after inhalation : ON CONTINUOUS EXPOSURE/CONTACT: May cause respiratory irritation.

Symptoms/effects after skin contact : Contact during a long period may cause light irritation. Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion : Ingestion is likely to be harmful or have adverse effects.

SECTION 12: Ecological information

12.1. Toxicity

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LC50 fish 1	> 100.00 mg/l (LL50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Static system; Fresh water; Experimental value)
Threshold limit algae 1	>= 100 mg/l (NOEL; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	
LC50 fish 1	> 5,000.00 ml/l (96 Hr) [Brachydanio rerio]
EC50 Daphnia 1	> 1,000.00 mg/l (48 Hr) [Daphnia magna]

residual oils (petroleum), solvent-dewaxed (64742-62-7)	
LC50 fish 1	> 5,000.00 mg/l (96 Hr) [Oncorhynchus mykiss]
EC50 Daphnia 1	> 1,000.00 mg/l (48 Hr) [Daphnia Magna]

graphite (7782-42-5)	
LC50 fish 1	> 100.00 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	> 100.00 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour)

12.2. Persistence and degradability

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Persistence and degradability	Not readily biodegradable in water. Adsorbs into the soil.

distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	
Persistence and degradability	Inherently biodegradable.

graphite (7782-42-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

molybdenum disulphide (1317-33-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Bioaccumulative potential	No bioaccumulation data available.

distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	
Log Pow	> 6.00
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

graphite (7782-42-5)	
Bioaccumulative potential	No bioaccumulation data available.

molybdenum disulphide (1317-33-5)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

molybdenum disulphide (1317-33-5)	
Ecology - soil	Adsorbs into the soil.

12.5. Other adverse effects

Effect on the ozone layer : No known effect on the ozone layer

Effect on global warming : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Refer to current TDG Canada for further Canadian regulations

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

PEAK High Temp Moly EP Grease	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
SARA Section 311/312 Hazard Classes	Refer to Section 2 for the OSHA hazard classification
Clean Water Act (CWA) 307	tris(dipentyldithiocarbamato-S,S')anitmony; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts
Clean Water Act (CWA) 311	xylene
Other Information	This material is classified as an oil under Section 311 if the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

residual oils (petroleum), solvent-dewaxed (64742-62-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

graphite (7782-42-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

molybdenum disulphide (1317-33-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

PEAK High Temp Moly EP Grease	
WHMIS Classification	This SDS has been prepared according to the criteria of the Hazardous Products Regulations (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR. Applicable GHS information is listed in section 2.2 of this SDS.

distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)
Listed on the Canadian DSL (Domestic Substances List)

residual oils (petroleum), solvent-dewaxed (64742-62-7)
Listed on the Canadian DSL (Domestic Substances List)

molybdenum disulphide (1317-33-5)
Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: Other information

Revision date : 05/01/2020

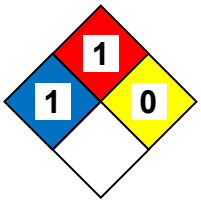
Full text of H-statements:

H332	Harmful if inhaled.

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



SDS GHS OWI

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