



# Peak High Temperature Red Lithium Grease

## Safety Data Sheet

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

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Peak High Temperature Red Lithium Grease

#### 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  
4065 Commercial Ave.  
Northbrook, IL 60062 - USA  
T (847) 559-2000  
[www.oldworldind.com](http://www.oldworldind.com)

#### 1.4. Emergency telephone number

Emergency number : (800) 424-9300; (703) 527 3887 (International)  
Chemtrec

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Not classified

#### 2.2. Label elements

##### GHS-US labelling

Signal word (GHS-US) : None  
Hazard statements (GHS-US) : None  
Precautionary statements (GHS-US) : P273 - Avoid release to the environment  
P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	% by wt	GHS-US classification
distillates (petroleum), solvent-dewaxed heavy paraffinic	(CAS No) 64742-65-0	60 - 85	Not classified
castor oil, hydrogenated	(CAS No) 8001-78-3	8 - 18	Not classified
12-hydroxystearic acid	(CAS No) 106-14-9	2 - 10	Skin Irrit. 2, H315 STOT SE 3, H335
sebacic acid	(CAS No) 111-20-6	< 3	Not classified
lithium hydroxide, monohydrate	(CAS No) 1310-66-3	< 2	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314

### 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.

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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 or doctor/physician.

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

Symptoms/injuries after inhalation	: ON CONTINUOUS EXPOSURE/CONTACT: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Contact during a long period may cause slight irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	: Ingestion is likely to be harmful or have adverse effects.

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

No additional information available

## 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. Advice for firefighters

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.
Special protective equipment for fire fighters	: 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.
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#### 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 leaking substance. 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

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### 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

Peak High Temperature Red Lithium Grease		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5.00 mg/m <sup>3</sup> Chemical name: Mineral Oils (excluding metal working fluids, highly & severely refined-inhlabl fraction)
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10.00 mg/m <sup>3</sup> Chemical name: Mineral Oils (excluding metal working fluids, highly & severely refined-inhlabl fraction)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> Chemical name: Mineral Oils

#### 8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Personal protective equipment : Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



- 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 : Red
- Odor : petroleum-like odor
- Odor threshold : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : 150 °C (302 °F) [Method used: Cleveland Open Cup]
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapor pressure : No data available
- Relative vapor density at 20 °C : No data available

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Specific Gravity	: No data available
Solubility	: Water: Negligible
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## 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

<b>distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
LD50 oral rat	> 5,000.00 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 5,000.00 mg/kg bodyweight (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	> 5.00 mg/l/4h (Rat; Literature study)
<b>lithium hydroxide, monohydrate (1310-66-3)</b>	
LD50 oral rat	368.00 mg/kg bodyweight (Rat; Weight of evidence; 491 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rat	> 2,000.00 mg/kg bodyweight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	> 6.15 mg/l/4h (Rat; Experimental value)
ATE US (oral)	368.00 mg/kg bodyweight
<b>sebacic acid (111-20-6)</b>	
LD50 oral rat	> 3,400.00 mg/kg (Rat)

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

Specific target organ toxicity (single exposure) : Not classified

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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: ON CONTINUOUS EXPOSURE/CONTACT: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Contact during a long period may cause slight irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	: Ingestion is likely to be harmful or have adverse effects.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>lithium hydroxide, monohydrate (1310-66-3)</b>	
LC50 fish 1	109.00 mg/l (96 h; Danio rerio; Lethal)
EC50 Daphnia 1	33.50 mg/l (48 h; Daphnia magna; pH > 7)
Threshold limit algae 1	41.62 mg/l (72 h; Pseudokirchneriella subcapitata; Biomass)
Threshold limit algae 2	153.44 mg/l (72 h; Pseudokirchneriella subcapitata; Growth rate)

<b>castor oil, hydrogenated (8001-78-3)</b>	
LC50 fish 1	> 10,000.00 mg/l (96 h; Brachydanio rerio)
Threshold limit other aquatic organisms 1	10000 mg/l (0.5 h; Pseudomonas putida)

#### 12.2. Persistence and degradability

<b>distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
Persistence and degradability	Contains non readily biodegradable component(s). Adsorbs into the soil. Low potential for mobility in soil.

<b>lithium hydroxide, monohydrate (1310-66-3)</b>	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

<b>12-hydroxystearic acid (106-14-9)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>sebacic acid (111-20-6)</b>	
Persistence and degradability	Readily biodegradable in water.

#### 12.3. Bioaccumulative potential

<b>distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
Log Pow	> 6.00 (Conclusion by analogy)
Bioaccumulative potential	Contains bioaccumulative component(s).

<b>lithium hydroxide, monohydrate (1310-66-3)</b>	
Bioaccumulative potential	Bioaccumulation: not applicable.

<b>12-hydroxystearic acid (106-14-9)</b>	
Log Pow	0.00
Bioaccumulative potential	No bioaccumulation data available.

<b>castor oil, hydrogenated (8001-78-3)</b>	
Bioaccumulative potential	No bioaccumulation data available.

<b>sebacic acid (111-20-6)</b>	
Bioaccumulative potential	No bioaccumulation data available.

#### 12.4. Mobility in soil

No additional information available

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### 12.5. Other adverse effects

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

Effect on global warming : No known ecological damage caused by this product.  
No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste 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

In accordance with DOT

Not a dangerous good in sense of transport regulations

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Peak High Temperature Red Lithium Grease	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
<b>distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>lithium hydroxide, monohydrate (1310-66-3)</b>	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>12-hydroxystearic acid (106-14-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>castor oil, hydrogenated (8001-78-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### 15.2. International regulations

#### CANADA

#### WHMIS Classification

<b>distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

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### National regulations

No additional information available

### 15.3. US State regulations

#### lithium hydroxide, monohydrate (1310-66-3)

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H335	May cause respiratory irritation

NFPA health hazard

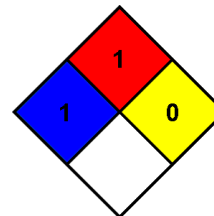
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 °F (93 °C). (Class IIIB)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS GHS US (GHS HazCom 2012) OWI w/Supp OEL's

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