

PRODUCT NAME: High Temperature Lithium Complex Grease, Red ABRO MASTERS
PRODUCT NUMBER/SIZE: LG-990-HIT-AM

Revision Date: 11/04/2020

SECTION 1
Identification of the Substance and of the Company/Undertaking

MANUFACTURER'S NAME: ABRO INDUSTRIES, INC.
ADDRESS: 3580 Blackthorn Drive
South Bend, IN 46628 USA
PRODUCT DESCRIPTION: Hi-Temp Red Lithium Complex Grease
COMPANY PHONE: 574-232-8289
EMERGENCY 24-HR TELEPHONE: Chemtrec: US/Canada 1-800-424-9300
International +1-703-527-3887

SECTION 2
Hazards Identification

Classification (GHS-US):
Not Classified

Label Pictogram(s): None required.

Signal Word: None required.

Hazard Phrases: None required.

Precautionary Phrases: Avoid release to the environment. Dispose of contents/container in accordance with local, regional, national, and international regulations.

Response: None required.

Storage / Disposal: None required.

Other: None noted.

Unknown Acute Toxicity (GHS-US): None of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3
Composition/Information on Ingredients

Substances:
Not applicable

Mixture:

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Petroleum distillates, solvent dewaxed	(CAS No) 64742-65-0	60 – 75, 70 – 85	Not Classified

Lithium Hydroxide, Monohydrate	(CAS No) 310-66-3	<2	H314: Skin Corr, 1B H302: Acute Toxicity, 4
12-Hydroxystearic Acid	(CAS No) 106-14-9	5 – 15	Not Classified
Sebacic Acid	(CAS No) 111-20-6	<3	Not Classified

*The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

*More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary, due to varying composition.

SECTION 4 First Aid Measures

GENERAL INFORMATION: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

EYE CONTACT: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

SKIN CONTACT: Remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

INHALATION: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

INGESTION: Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

SYMPTOMS OR EFFECTS:

General: No known significant effects or critical hazards.

Inhalation: Overexposure may be irritating to the respiratory system.

Skin Contact: Repeated or prolonged skin contact may cause irritation.

Eye Contact: Direct contact with the eyes is likely irritating.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: No known significant effects or critical hazards.

RECOMMENDATIONS FOR IMMEDIATE MEDICAL CARE OR SPECIAL TREATMENT:

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5 Fire Fighting Measures

RECOMMENDED EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

UNUSUAL OR SPECIFIC FIRE AND EXPLOSION HAZARDS: Not flammable but will support combustion. Product is not explosive. Hazardous reactions will not occur under normal conditions.

FIREFIGHTING INSTRUCTIONS AND PROTECTIVE EQUIPMENT: Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection. Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons.

OTHER INFORMATION: Refer to Section 9 for flammability properties.

SECTION 6
Accidental Release Measures

PERSONAL PRECAUTIONS: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray). Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.

EMERGENCY PROCEDURES: Equip cleanup crew with proper protection. Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

METHODS AND MATERIALS FOR CONTAINMENT: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

CLEANUP PROCEDURES: Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7
Handling and Storage

STORAGE RECOMMENDATIONS: Comply with applicable regulations. Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Incompatible Materials: Strong oxidizing agents.

HANDLING PRECAUTIONS: Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 8
Exposure Controls/Personal Protection

CONTROL PARAMETERS :

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

EXPOSURE LIMITS:

Mineral Oils		
USA ACGIH	ACGIH TWA (mg/m3)	5 mg/m3 (excluding metal working fluids, highly & severely refined-inhalable fraction)

USA ACGIH	ACGIH STEL	10 mg/m ³ (excluding metal working fluids, highly & severely refined-inhalable fraction)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
Canada	OEL STEL (mg/m ³)	10 mg/m ³
Canada	OEL TWA (mg/m ³)	5 mg/m ³

ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

PERSONAL PROTECTIVE EQUIPMENT: Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



RECOMMENDED PERSONAL PROTECTIVE MEASURES:

Respiratory: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Eye/Face: Chemical goggles or safety glasses.

Skin/Body: Wear suitable protective clothing.

Hand Protection: Wear chemically resistant protective gloves.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

SECTION 9
Physical and Chemical Properties

Information on Basic Physical and Chemical Properties: See Product Data Sheet for Grade Specifics

Physical State:	Semi-Solid At Room Temperature
Appearance:	Varies by Grade
Odor:	Slight Hydrocarbon
Odor Threshold:	Not available
pH:	Not available
Evaporation Rate:	Not available
Melting Point:	Not available
Boiling Point:	Not available
Flash Point:	Typical 150 °C (COC) (350°C/662 °F)
Auto-ignition Temperature:	Not available
Decomposition Temperature:	Not available
Flammability (solid, gas):	Not available
Lower Flammable Limit:	Not available
Upper Flammable Limit:	Not available
Vapor Pressure:	Not available
Relative Vapor Density at 20 °C:	Not available
Relative Density:	Not available
Specific Gravity:	Not available

Solubility:	Negligible
Partition Coefficient N-Octanol/Water:	Not available
Viscosity:	Not available
Viscosity, Kinematic:	Not available
Explosive Properties:	Product is not explosive
Explosion Data – Sensitivity to Mechanical Impact:	Not expected to present an explosion hazard due to mechanical impact
Explosion Data – Sensitivity to Static Discharge:	Not expected to present an explosion hazard due to static discharge

SECTION 10 Stability and Reactivity

REACTIVITY: Hazardous reactions will not occur under normal conditions.

CHEMICAL STABILITY: Stable under recommended handling and storage conditions (see section 7).

POSSIBILITY OF HAZARDOUS REACTIONS / POLYMERIZATION: Hazardous polymerization will not occur.

CHEMICAL INCOMPATIBILITIES: Strong oxidizing agents.

CONDITION TO AVOID: Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS: Not expected to form during normal storage.

SECTION 11 Toxicological Information

Information on Toxicological Effects - Product

Acute Toxicity:	Not classified
LD50 and LC50 Data:	Not available
Skin Corrosion/Irritation:	Not classified
Eye Damage/Irritation:	Not classified
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	Not classified
Teratogenicity:	Not classified
Carcinogenicity:	Not classified
Specific Target Organ Toxicity (Repeated Exposure):	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (Single Exposure):	Not classified
Aspiration Hazard:	Not classified
Symptoms/Injuries After Inhalation:	Overexposure may be irritating to the respiratory system.
Symptoms/Injuries After Skin Contact:	Repeated or prolonged skin contact may cause irritation.
Symptoms/Injuries After Eye Contact:	Direct contact with the eyes is likely irritating.
Symptoms/Injuries After Ingestion:	Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms:	Not Classified

Information on Toxicological Effects - Ingredient(s) LD50 and LC50 Data: Not classified

SECTION 12 Ecological Information

Toxicity

Ecology - General	Not available
Persistence and Degradability	Not available
Bioaccumulative Potential	Not available
Mobility in Soil	Not available
Other Adverse Effects Other Information:	Avoid release to the environment.

SECTION 13 Disposal Considerations

RECOMMENDED DISPOSAL PROCEDURES: Do not empty into drains; dispose of this material and its container in a safe way. Do not empty into drains. Do not dispose of waste into sewer. Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SPECIAL DISPOSAL INSTRUCTIONS: To be disposed in accordance with local prevailing and allowable regulations.

OTHER INFORMATION: No additional information available.

SECTION 14 Transport Information

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

U.S. DOT This product is not regulated as a DOT hazardous material.

UN/ID Number: Not applicable
Proper shipping name: Not applicable
Hazard class: Not applicable
Packing Group: Not applicable
Exceptions: Not applicable
Environmental Hazards: Not applicable
Transport in Bulk: Not applicable
Special Precautions: Not applicable

IMO/IMDG This product is not regulated as a dangerous good for transport by vessel.

UN/ID Number: Not applicable
Proper shipping name: Not applicable
Hazard class: Not applicable
Packing Group: Not applicable
Exceptions: Not applicable
Environmental Hazards: Not applicable
Transport in Bulk: Not applicable

Special Precautions: Not applicable

ICAO/IATA This product is not regulated as a dangerous good for transport by aircraft.

UN/ID Number: Not applicable
 Proper shipping name: Not applicable
 Hazard Class: Not applicable
 Packing Group: Not applicable
 Exceptions: Not applicable
 Environmental Hazards: Not applicable
 Transport in Bulk: Not applicable
 Special Precautions: Not applicable

Canada This product is not regulated as a dangerous good in Canada.

(TDG) UN/ID Number: Not applicable
 Proper shipping name: Not applicable
 Hazard class: Not applicable
 Packing Group: Not applicable
 Exceptions: Not applicable
 Environmental Hazards: Not applicable
 Transport in Bulk: Not applicable
 Special Precautions: Not applicable

Europe This product is not regulated as a dangerous good under ADR/RID

(ADR/RID) UN/ID Number: Not applicable
 Proper shipping name: Not applicable
 Hazard class: Not applicable
 Packing Group: Not applicable
 Exceptions: Not applicable
 Environmental Hazards: Not applicable
 Transport in Bulk: Not applicable
 Special Precautions: Not applicable

SECTION 15
Regulatory Information

US Federal Regulations

SARA Section 311/312 Hazard Classes	Not Classified
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US State Regulations: Not regulated
Canadian Regulations: Not regulated

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16
Other Information

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use,

with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

ABBREVIATIONS:

NG="NOT GIVEN"

<="LESS THAN"

ND = Not Determined

BT="BETWEEN"

>="GREATER THAN"

NA = Not Applicable