

PRODUCT NAME: ABRO White Lithium Grease
PRODUCT NUMBER/SIZE: LG-380

Revision Date: 11/13/2014

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

MANUFACTURER'S NAME: ABRO INDUSTRIES, INC.
ADDRESS: 3580 Blackthorn Court
South Bend, IN 46628
USA
PRODUCT DESCRIPTION: Lithium 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

HMIS: Health 2 Flamm. 3 React. 0 **NFPA:** Tox. 2 Flamm. 3 React. 0

Classification:

Aerosol Category 2
Skin irritation Category 2
Carcinogenicity Category 2
Acute aquatic toxicity Category 2
Chronic aquatic toxicity Category 2

Label Pictogram(s):



Signal Word: Warning

Hazard Phrases: Flammable aerosol. Pressurized container: may burst if heated. Causes skin irritation. Suspected of causing cancer. Toxic to aquatic life with long lasting effects.

Precautionary Phrases: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not spray on and keep away from open flames or other ignition sources. No smoking. Do not pierce or burn, even after use. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective clothing and gloves.

Response: IF ON SKIN: Take off contaminated clothing and wash it before reuse. Wash

thoroughly after handling. If exposed or concerned: Get medical attention. If skin irritation occurs: Get medical attention.

Storage / Disposal:

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of container in compliance with local and federal regulations.

Other:

Keep out of reach of children. If medical advice is needed, have product container or label at hand. Read label before use.

SECTION 3 Composition/Information on Ingredients

<u>COMPONENTS</u>	<u>CAS Number</u>	<u>Percent by weight</u>
Hexane	110-54-3	40-70 %
Petroleum Oil	64742-52-5	10-30 %
Liquefied Petroleum Gas	68476-86-8	10-30 %
Titanium Dioxide	131463-67-7	0.1-1 %
Zinc Oxide White	1314-13-2	0.1-1 %

** Indicates ingredients that are subject to the reporting requirements of Section 313 of EPCRA and 40 CFR 372. Components of a blended material regulated under section 313 of SARA.

SECTION 4 First Aid Measures

First Aid Measures

Immediate Medical Attention:

Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard.

Eyes

Immediately move from exposure to fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; Seek immediate medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting.

Inhalation

Move from exposure to fresh air. Seek immediate medical attention.

Signs & Symptoms Of Over Exposure:

Breathing of vapor or mist is possible. Breathing this material may be harmful. Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Special Treatment: Pre-existing disorders of the skin, lung (for example, asthma-like conditions), Liver, kidney, Individuals with pre-existing heart disorders maybe more susceptible to irregular heartbeats if exposed to high concentrations of this material.

SECTION 5

Fire Fighting Measures

Extinguishing media	Dry chemical, CO ₂ , Foam, Water Spray
Hazardous Combustion:	Unknown
Protective Equipment and Precautions for firefighters:	<p>Keep containers cool using water spray to avoid bursting containers. Wear full firefighting turn-out gear and respiratory protection. Never use welding or cutting torch on or near area of use because product (even just residue) can ignite explosively. This product contains halogenated solvents which inhibit flashing until the halogenated solvent has been evaporated away. The product may become flammable after this occurs. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.</p> <p>Contents under pressure. Do not use near fire, sparks, or flame. Do not puncture or incinerate container. Exposure to temperatures above 120°F may cause container to burst.</p>
Flammability per Flame Projection Test	FLAMMABLE

SECTION 6

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	<p>Provide sufficient mechanical (general/local exhaust) ventilation to maintain exposure below TLV(s). Use respirator only as a last resort to control exposure. Wear CHEMICAL RESISTANT GLOVES if repeated skin contact occurs or causes irritation. To prevent skin contact, wear impervious clothing and boots. Wear SAFETY GLASSES or GOGGLES to prevent eye contact.</p>
Methods/materials for containment and cleanup:	<p>Absorb spill with inert material then place in a chemical waste container. Dispose of spill material in accordance with local, state or federal regulations.</p>
Environmental precautions:	<p>Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations</p>

may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 7 Handling and Storage

Precautions for Safe Handling

DANGER: FLAMMABLE. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED. EYE AND SKIN IRRITANT. Contents under pressure. Keep away from heat, sparks and open flames. Do not smoke while using. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Use only in a well-ventilated area. Avoid contact with aluminum. Do not allow water or moisture contamination of product. Do not store at temperatures above 120°F. Intentional misuse by deliberately concentrating and inhaling the vapors (contents) may be harmful or fatal. Do not puncture or incinerate containers.

Conditions for Safe Storage

Keep out of reach of children. Store in a well-ventilated area away from incompatible materials. Store in accordance with NFPA 30B for Level 2 Aerosols.

SECTION 8 Exposure Controls/Personal Protection

COMPONENTS

OSHA PEL

ACGIH TLV

Hexane

500 ppm (TWA)

Not Available

Zinc Oxide

10 mg/m³

10 mg/m³

Petroleum Oil

5 mg/m³ (oil mist)

5 mg/m³ (oil mist)
10 mg/m³ (oil mist)

Titanium Dioxide

15 mg/m³ (total)

10 mg/m³

Liquefied Petroleum Gas

Unknown

1000 ppm

Engineering Controls:

Provide sufficient mechanical (general/local exhaust) ventilation to maintain exposure below TLV(s).

Personal Protective Equipment:

Skin If repeated skin contact occurs or causes irritation. To prevent skin contact, wear impervious clothing and boots.

Eyes Wear SAFETY GLASSES or GOGGLES to prevent eye contact.

Respiratory Use respirator only as a last resort to control exposure.

SECTION 9 Physical and Chemical Properties

Appearance and Physical State:

Off-white opaque mixture in pressurized aerosol spray can.

Odor:

Ether-like

Odor Threshold:

Not determined

pH:

Not Applicable.

Melting Point/Freezing Point:	Not determined
Initial boiling point & boiling range:	Greater than 100 °F
Flash Point:	Not determined
Evaporation rate:	Greater than 1.0 (BuAc=1)
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limits	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Relative density / Specific gravity	1.50 – 1.70 g/ml (concentrate)
Solubility	Not determined
Partition Coefficient n-Octanol/Water	Not determined.
Auto-ignition Temperature:	Not determined.
Decomposition Temperature:	Not determined.
Viscosity:	Not determined.
%-VOC Content:	25.0%
CARB VOC Category/Standard (%)	EXPORT
OTC Model Rule Category/Standard (%)	EXPORT
US EPA Cons Prod Category/Standard (%)	EXPORT

SECTION 10 Stability and Reactivity

Reactivity	Product is stable.
Chemical Stability:	Product is stable
Possibility of hazardous reactions:	None known.
Conditions to avoid (e.g. static discharge, shock or vibration):	Heat, sparks, open flames and temperatures above 120°F
Incompatibilities:	Avoid contact with strong oxidizers
Hazardous decomposition products:	CO, CO ₂ , and hydrocarbons
Hazardous polymerization:	Will not occur

SECTION 11 Toxicological Information

Likely Routes of Exposure:	Inhalation, eye/skin contact.
Symptoms:	Breathing of vapor or mist is possible. Breathing this material may be harmful. Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use. Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung

inflammation and other lung injury.

Delayed and Immediate Effects:	Not determined.
Chronic Effects:	Not determined. Tetrachloroethylene is suspected of causing cancer.
Toxicity Measures:	Tetrachloroethylene Acute toxicity LD50 Oral - rat - 2,629 mg/kg LC50 Inhalation – mouse 2,978 mg/L LD50 Dermal - rabbit >3228 mg/kg
Chronic Effects:	No data available
NTP Carcinogen:	Reasonably anticipated to be a human carcinogen (Tetrachloroethylene)
IARC Carcinogen:	2A - Group 2A: Probably carcinogenic to humans (Tetrachloroethylene)
OSHA Carcinogen:	No.

SECTION 12 Ecological Information

Ecotoxicity:	Not determined
Persistence and Degradability:	Not determined.
Bioaccumulation Potential:	Not determined.
Mobility in Soil:	Not determined.
Other Adverse Effects:	Not determined.

SECTION 13 Disposal Considerations

Storage and Disposal	Keep out of reach of children. Store in a well-ventilated area away from incompatible materials. Store in accordance with NFPA 30B for Level 2 Aerosols.
Waste Disposal Method:	<p>Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.</p> <p>Recovered liquids may be sent to an EPA permitted re-claimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult Federal, state, or local disposal authorities for approved procedures.</p>

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	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols
	Hazard class:	2.1
	Packing Group:	None
	Exceptions:	May be shipped as a limited quantity
	Environmental Hazards:	Marine Pollutant (Tetrachloroethylene)
	Transport in Bulk:	Not Applicable.
	Special Precautions:	ERG#126
IMO/IMDG	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols
	Hazard class:	2.1
	Packing Group:	None
	Exceptions:	May be shipped as a limited quantity
	Environmental Hazards:	Marine Pollutant (Tetrachloroethylene)
	Transport in Bulk:	Not Applicable
	Special Precautions:	EmS F-D, S-U
ICAO/IATA	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols
	Hazard Class:	2.1
	Packing Group:	None
	Exceptions:	May be shipped as a limited quantity
	Environmental Hazards:	Marine Pollutant (Tetrachloroethylene)
	Transport in Bulk:	Not Applicable
	Special Precautions:	None
Canada (TDG)	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols
	Hazard class:	2.1
	Packing Group:	None
	Exceptions:	May be reclassified as a limited quantity.
	Environmental Hazards:	Marine Pollutant (Tetrachloroethylene)
	Transport in Bulk:	Not Applicable
	Special Precautions:	ERG#126

SECTION 15

Regulatory Information

This product is considered to be hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 313 Information (40 CFR 372): This product contains a chemical which is listed in Section 313 at or above the de minimis concentrations. Perchloroethylene

U. S. Toxic Substance Control Act (TSCA): All components of this product are listed on the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Proposition 65 – California Safe Drinking Water and Toxic Enforcement Act of 1986

WARNING: This product may contain a chemical(s) known to the State of California to cause cancer.

ANY INGREDIENT LISTED CARCINOGEN: OSHA Not listed. IARC listed. NTP listed.

SECTION 16 Other Information

We believe all information given is accurate. It is offered in good faith but without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.

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