



MATERIAL SAFETY DATA SHEET

ADDRESS:
68 Titan Road
Toronto, Ontario M8Z 2J8

PRODUCT IDENTIFICATION

PRODUCT NAME

White Lithium # 1 Grease

Code No.

80,037

Emergency Phone Number(s)

Business: (416) 239-1548

Fax #: (416) 239-3449

CHEMICAL NAME

(All Grades)

Lubricating Grease

Date Sent

Oct. 03, 2014

SYNONYMS

Lithium Grease

Chemical Family

Hydrocarbon

INGREDIENTS

MATERIALS OR COMPONENTS

%W

CAS NUMBER

CARCINOGEN OSHA OR IARC

Lithium 12 Hydroxystearate

4-7

7620-77-1

No

Mineral Oil

30-70

64742-53-6

No

Mineral Oil

20-50

64742-52-5

No

Zinc Oxide

1-2

1314-13-2

No

Titanium Dioxide

2-4

13463-67-7

No

SHIPPING INFORMATION

Not Restricted

PHYSICAL PROPERTIES

Boiling Point/Range

°C 700 °F

Melting Point

°C 365 °F

Freezing Point

°C NA °F

Molecular weight (Calculated)

NA

Specific Gravity (H₂O=1)

.89 @ / 16 °C

Vapor Pressure (mm Hg)

NA °C

Vapor Density (Air=1)

NA

Solubility in H₂O

Nil

% Volatiles by Volume

0

Evaporation Rate

NA

Ether = 1

Water = 1

Butylacetate =1

Appearance and Odor

Cream Semi-Solid Petroleum

Other

FIRE AND EXPLOSION DATA

Flash Point

°C 365 °F

Test Method

D-92

Flammable Limits

Lower NA % Upper %

Autoignition Temperature/Fire Point

°C 410 °F

EXTINGUISHING MEDIA

Water-spray

Water-fog

Water-stream

CO₂

Dry chemical

Alcohol foam

Foam

Earth or sand

SPECIAL FIRE FIGHTING PROCEDURES

Do not enter Building

Allow fire to burn

Water may cause frothing

Do not use water

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dust explosion Hazard

Sensitive to shock

Contamination

Temperature

Other (Specify):

None

REACTIVITY DATA

STABILITY

Stable

Unstable

CONDITIONS CONTRIBUTING TO INSTABILITY

Thermal decomposition

Photo degradation

Polymerization

Contamination

INCOMPATIBILITY - Avoid contact with

Strong Acids

Strong Alkalis

Strong Oxidizers

Other (Specify):

HAZARDOUS DECOMPOSITION PRODUCTS - THERMAL AND OTHER (list)

CO & CO₂ IF INCOMPLETE COMBUSTION.

CONDITIONS TO AVOID

Heat

Open Flames

Sparks

Ignition sources

Other (specify):

SPILL OR LEAK

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Flush with Water

Absorb with sand or inert material

Neutralize

Sweep or scoop up and remove

Keep upwind Evacuate enclosed spaces.

Prevent Spread Or spill

Dispose of Immediately

Other (specify)

WASTE DISPOSAL METHOD - Consult federal, state, or local authorities for proper disposal procedures.

ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS.

CONTINUED ON REVERSE SIDE



TOXICITY INFORMATION	CONDITIONS TO AVOID Excessive Skin Contact							
	PRIMARY ROUTES OF ENTRY <input type="checkbox"/> INHALATION <input checked="" type="checkbox"/> SKIN CONTACT <input type="checkbox"/> OTHER (Specify)							
	This product has been used for years with no known ill effects. It contains no known carcinogens or mutagens as defined by OSHA or IARC.							
	This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): <table style="width:100%; border: none;"> <tr> <td style="text-align: left;"><u>CAS#</u></td> <td style="text-align: left;"><u>Chemical Name</u></td> <td style="text-align: left;"><u>Percent by Weight</u></td> </tr> <tr> <td>1314-13-2</td> <td>Zinc Oxide</td> <td>1-5</td> </tr> </table>			<u>CAS#</u>	<u>Chemical Name</u>	<u>Percent by Weight</u>	1314-13-2	Zinc Oxide
<u>CAS#</u>	<u>Chemical Name</u>	<u>Percent by Weight</u>						
1314-13-2	Zinc Oxide	1-5						

HEALTH HAZARD INFORMATION	NFPA Rating	Health 0 Flammability 1 Reactivity 0 Protective Equipment B	NFPA HAZARD RATING CODES Least 0 High 3 Slight 1 Extreme 4 Moderate 2
	NOT A CONTROLLED SUBSTANCE UNDER W. H. M. I. S.		

HEALTH HAZARD INFORMATION	Effects of Exposure	PERMISSIBLE EXPOSURE LIMIT (Specify if TLV/TWA or Ceiling [c]) ACGIH 20	Other: 5mg/m³ For Mineral Oil
	IRRITATION	<input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Eye	<input type="checkbox"/> Severe <input type="checkbox"/> Severe <input type="checkbox"/> Moderate <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Mild (Transient) <input checked="" type="checkbox"/> Mild (Transient)
	CORROSIVITY	<input type="checkbox"/> Skin <input type="checkbox"/> Eye	<input type="checkbox"/> 4 hrs. (DOT) <input type="checkbox"/> May cause blindness <input type="checkbox"/> 24 hrs (CPSC) <input checked="" type="checkbox"/> Not Corrosive
	SENSITIZATION	<input type="checkbox"/> Skin <input type="checkbox"/> Respiratory <input checked="" type="checkbox"/> None	INHALATION EFFECTS <input type="checkbox"/> Narcotic Effect <input type="checkbox"/> Cyanosis <input type="checkbox"/> Asphyxiant
	LUNG EFFECTS (Specify):	NA	
	OTHER (Specify):	<input type="checkbox"/> Repeated contact-skin defatter <input type="checkbox"/> Other (Specify) NA	
	EMERGENCY FIRST AID	INGESTION <input type="checkbox"/> Induce vomiting <input checked="" type="checkbox"/> DO NOT induce vomiting <input type="checkbox"/> Give plenty of water <input checked="" type="checkbox"/> Get medical attention <input type="checkbox"/> Other (Specify):	
	DERMAL <input checked="" type="checkbox"/> Flush with soap and water <input type="checkbox"/> Get medical attention <input checked="" type="checkbox"/> Contaminated clothing-remove & launder <input type="checkbox"/> Contaminated shoes - destroy <input type="checkbox"/> Other (Specify)		
	EYE CONTACT <input checked="" type="checkbox"/> Flush with plenty of water for at least 15 minutes <input checked="" type="checkbox"/> Get medical attention <input type="checkbox"/> Other (Specify):		
	INHALATION <input type="checkbox"/> Remove to fresh air <input type="checkbox"/> If not breathing give artificial respiration <input type="checkbox"/> Give oxygen <input type="checkbox"/> Get medical attention <input type="checkbox"/> Other (Specify): NA		

SPECIAL PROTECTION INFORMATION	VENTILATION REQUIREMENTS - <i>Always maintain exposure below permissible exposure limits</i> <input type="checkbox"/> Consult an industrial hygienist or environmental health specialist <input type="checkbox"/> Local exhaust <input checked="" type="checkbox"/> Use with adequate ventilation <input type="checkbox"/> Check for air contamination and oxygen deficiency <input type="checkbox"/> Other (Specify):		
	EYE <input type="checkbox"/> Safety glasses <input type="checkbox"/> Face Shield <input type="checkbox"/> Goggles	HAND (GLOVE TYPE) <input type="checkbox"/> Polyvinyl chloride <input checked="" type="checkbox"/> Neoprene <input type="checkbox"/> Butyl Rubber <input type="checkbox"/> Natural rubber <input type="checkbox"/> Polyvinyl alcohol <input type="checkbox"/> Polyethylene <input checked="" type="checkbox"/> Other (Specify): Nitrile	
	RESPIRATOR TYPE - <i>Use only NIOSH / MESA approved equipment</i> <input type="checkbox"/> Self-contained <input type="checkbox"/> Supplied air <input type="checkbox"/> Can or cartridge gas or vapor <input type="checkbox"/> Filter-dust, fume, mist <input type="checkbox"/> Other (Specify): NA		
	OTHER PROTECTIVE EQUIPMENT <input type="checkbox"/> Rubber boots <input type="checkbox"/> Apron <input type="checkbox"/> Other (specify): None Normally Required		

SPECIAL PRECAUTIONS	PRECAUTIONARY NOTES <input checked="" type="checkbox"/> Wash Thoroughly after handling <input checked="" type="checkbox"/> Do not get in eyes, or on clothing <input type="checkbox"/> Do not breathe dust, vapor, mist, gas <input checked="" type="checkbox"/> Keep container closed <input checked="" type="checkbox"/> Keep away from sparks, and open flames <input type="checkbox"/> store in tightly closed containers <input type="checkbox"/> Do not store near Combustibles <input type="checkbox"/> Keep from contact with clothing and other combustible materials <input type="checkbox"/> Empty container may contain hazardous residues <input type="checkbox"/> Use explosion proof equipment <input type="checkbox"/> Other (Specify):		
	Other handling and storage conditions Normal Precautions Common To Good Manufacturing Practices Should Be Followed		

Prepared by	Date	Rev	Address	Phone
			68 Titan Road, Toronto, Ontario M8Z 2J8	(416) 239-1548

PLEASE NOTE "The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, Battenfeld MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use."