

**Bi-Tron Marketing (N.A.) Ltd.**  
**MATERIAL SAFETY DATA SHEET**

No 00300

08/20/2006

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THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)  
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Product name: **Bi-Tron Lithium Complex EP-2 GREASE**

Chemical name and/or Description:  
Automotive greases

Attn. Plant Manager/Safety Director

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COMPOSITION / INFORMATION ON INGREDIENTS. SECTION I  
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**Composition:**

The criteria for listing components in the composition section is as follows:  
Chronic hazards (cancerogenic, teratogenic, mutagenic, neurotoxic, sensitizers) are listed when present at 0.01% or greater. Acute hazards are listed when present at 1% or greater. Non -- hazardous components are listed when present at 3.0% or greater. This is not intended to be a complete compositional disclosure.

Chemical / Common name	CAS No.	Explosure Limit (Air)	Range, %
Lithium 12 - Hydroxystearate	7620771	None	2.....9
Solvent - dewaxed heavy paraffinic petroleum distillates.	64742650	5 mg/m3 OSHA (mist) 10 mg/m3 ACGIH (mist)	27...39
Solvent deasphalted residual	64741953	5 mg/m3 ACGIH (mist)	
	61788769	N.A.	< 10
Petroleum hydrocarbon oil		N.A.	< 2
Oxidation inhibitor & detergent		N.A.	< 0.5

Product is Non -- hazardous according to OSHA (1910, 1200)

**EMERGENCY OVERVIEW.**

Appearance and Odor: Dark green semi - viscous, amber odor.

**WARNING STATEMENT**

NONE NECESSARY

<b>HMIS</b>				<b>NFPA</b>	
Health: 0	Reactivity: 0	Health: 0	Reactivity: 0	Flammability: 1	Special: -
Flammability: 1	Special: -				

**POTENTIAL HEALTH EFFECTS**

	<b>EYE</b>	<b>SKIN</b>	<b>INHALATION</b>	<b>INGESTION</b>
Primary road of exposure:	X	X	X	--

**EFFECTS OF OVEREXPOSURE:**

**Eyes:**

May cause slight irritation, redness, tearing, experienced as temporary discomfort.

**Skin:**

No adverse effects expected from absorption of material through the skin. Because of its defeating properties, prolonged and repeated skin contact may cause defeating of skin or irritation, seen as local redness with possible mild discomfort and / or aggravate existing dermatitis.

**Inhalation:**

Product not volatile at ambient temperatures. No adverse effects expected from vapor generated at ambient temperatures.

**Ingestion:**

No adverse effects expected. Can cause abdominal discomfort, nausea and diarrhea of more than several mouthfuls are swallowed.

**Sensitization Properties:**

Unknown.

**Chronic:**

No adverse effects anticipated.

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FIRST AID AND MEASURES - SECTION III

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**Eyes:**

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

**Skin:**

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

**Inhalation:**

If irritation or drowsiness occurs, remove to fresh air.

**Ingestion:**

Give two glasses of water (16 oz.) if more than two mouthfuls have been swallowed. Get medical attention.

**Other instruction:**

Remove and dry -- clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of affected clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling of contaminated clothing.

**NOTE TO PHYSICIAN:** High pressure injection of the material into skin, if not properly treated, can cause severe injury. Most damage occurs during first few hours. Failure to debride the wound from all residual material can result in disfigurement, loss of function, or even amputation. The extent of the injury can not be determined by examining the wound. X - ray may reveal the presence of gas in tendon sheaths or soft tissue.

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FIRE -- FIGHTING MEASURES. SECTION IV

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Flash point, Degrees F (Method)      greater than 360 deg. F (COC)

**Recommended Fire extinguishing agents and special procedures:**

According to NFPA guide, use water spray, dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to cool fire -- exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and provide protection for persons attempting to stop the leak.

**Unusual or Explosive Hazards: NONE**

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ACCIDENTAL RELEASE MEASURES --- SECTION V

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Contain spill if possible. Wipe or absorb on suitable material such as clay or soil and shovel up. Avoid contacts with skin eyes.

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HANDLING AND STORAGE --- SECTION VI

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Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

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EXPOSURE CONTROL / PERSONAL PROTECTION. --- SECTION VII

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**Eye / Face protection:**

Chemical type goggles or face shield recommended to prevent eye contact.

**Skin protection:**

Workers should wash exposed skin several times daily with soap and water. Remove and dry -- clean or launder clothing soaked with this material before reuse. Dry cleaning of affected clothing may be more effective than normal laundering. Soiled work clothing should be laundered or dry cleaned at least once a week.

**Respiratory protection.**

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated, use respirator approved by MSHA or NIOSH as appropriate. Supplied air respiratory protection should be used for cleaning large spill or upon entry into tanks, vessels or other confined spaces. See below for applicable permissible concentrations.

**Ventilation:**

Adequate to meet component occupational exposure limits (see Section 2).

**Exposure limits for Total Product:**

None established for this product, refer to Section 2 for component permissible concentration.

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PHYSICAL AND CHEMICAL PROPERTIES. --- SECTION VIII

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Appearance and odor: Dark green, semi -- solid. Amber odor.

Specific gravity: >1 (H<sub>2</sub>O = 1)

Percent VOC: 100

Vapor pressure: negligible.

Boiling point: Not determined.

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STABILITY AND REACTIVITY --- SECTION IX

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This material reacts violently with oxidizers.

**Products evolved when subjected to heat or combustion:**

Toxic levels of carbon monoxide, carbon dioxide, irritation aldehydes and ketones, combustion products of lithium may also be released.

**Hazardous Polymerization:**

Do not occur.

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TOXICOLOGICAL INFORMATION --- SECTION X

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**Toxicological information:**

**Median Lethal Dose (Species)**

Oral: Believed to be > 5 g/kg (rat) practically non-toxic.  
Inhalation: Not Determined.  
Dermal: Believed to be > 3 g/kg (rabbit) : practically non-toxic.

**Irritation Index, Estimation of Irritation (Species)**

Skin: Believed to be < 0.6 / 9.0 (rabbit); no appreciable effect.  
Eyes: Believed to be <15 / 110 (rabbit); no appreciable effect.  
Sensitization: Not determined.

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DISPOSAL CONSIDERATIONS --- SECTION XI

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**WASTE DISPOSAL METHODS**

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form.

Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal whether the product meets the RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

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TRANSPORT INFORMATION --- SECTION XII

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**TRANSPORTATION:**

DOT: PROPER SHIPPING NAME: Not Determined.  
IMDG: PROPER SHIPPING NAME: Not Determined.  
IATA: PROPER SHIPPING NAME: Not Determined.  
TDG: PROPER SHIPPING NAME: Not Determined.

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REGULATORY INFORMATION --- SECTION XIII

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**A. SARA TITLE III**

**Title III Section 302/304 Extremely Hazardous Substance:**

NONE

**CERCLA Section 102 (a) Hazardous Substance:**

NONE

**Title III Section 311 Hazard Categorization:**

NONE

**Title III Section 313 Toxic Chemicals:**

NONE

**B. WHMIS CLASSIFICATIONS**

Not regulated