

SAFETY DATA SHEET FOR CHEMICALS

LUBRA GREASE LITHIUM EP NLGI 3

MSDS: LASA-086.

LAST UPDATE: December 2016

COMPANY INFORMATION

SUPERCEDE: SEPTEMBER 2015

| | |
|-----------------|-------------------------------------------------------------------|
| Manufacturer | Lubricantes de América, S.A. de C.V. |
| Emergency Phone | (52) 81 81 22 74 00 |
| Address | Carretera a García Km 1.2 Int. 8, Santa Catarina, N.L. C.P. 66350 |

I.- PRODUCT IDENTIFICATION

| | |
|-------------------|---------------------------------------|
| Product Name | LUBRA GREASE LITHIUM EP NLGI 3 |
| Chemical Name: | LITHIUM GREASE BASE OIL DERIVED |
| Chemical Family | HYDROCARBON |
| Molecular Formula | LITHIUM SOAP + HYDROCARBON + ADDITIVE |
| Synonyms | LITHIUM LUBRICANT GREASE |

II.- IDENTIFICATION OF DANGER OR DANGERS

| DANGER RANGE | HEALTH | FIRE | REACT | SPECIAL |
|--------------|--------|------|-------|---------|
| STPS | 1 | 1 | 0 | - |
| NFPA | 1 | 1 | 0 | - |
| HMIS | 1 | 1 | 0 | - |

PRODUCT LISTED IN NOM-052-SEMARNAT-2005 YES _____ NO X



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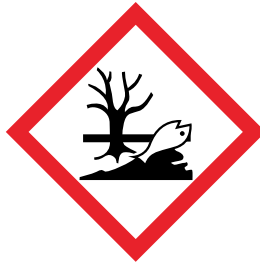


ISO: 9001:2008 Certificate No. 43698
ISO: 14001:2004 Certificate No. 46416
ISO TS: 16949:2009 Certificate No. 55073

ACEITES Y GRASAS
LUBRAL
LUBRICANTES

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WORD OF WARNING:

ATTENTION:

INDICATIONS OF DANGER:

H319: CAUSES SERIOUS EYE IRRITATION.
H402: HARMFUL TO AQUATIC ORGANISMS.
H412: HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS

PRECAUTIONARY STATEMENTS (PREVENTION):

P280: WEAR PROTECTIVE GLOVES / CLOTHING / GOGGLES / FACE MASK.
P273: AVOID RELEASE TO THE ENVIRONMENT.
P264: WASH WITH SOAP AND WATER
CONSCIENTIOUSLY AFTER THE MANIPULATION.

PRECAUTIONARY STATEMENTS (RESPONSE):

P305 + P351 + P338: IN CASE OF CONTACT WITH THE
EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES.
REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO.
KEEP

RINSING.

P337 + P311: IF EYE IRRITATION PERSISTS: CALL A PHYSICIAN.
CENTRAL TOXICOLOGY / DOCTOR.

PRECAUTIONARY STATEMENTS (ELIMINATION):

P501: DISPOSE OF CONTENTS / CONTAINER TO A SPECIAL WASTE COLLECTION POINT.

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III.- COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name: | CAS NO. | WT % | Exposure Limits-ref STPS-CPT OSHA-PEL ACGIH-TLV |
|-----------------------------|------------|----------|-------------------------------------------------------|
| Acid 12 Hydroxystearic | 106-14-9 | Minor 6 | TLV 5 mg / m ³ |
| Metal hydroxide | 554-13-2 | Minor 1 | TLV 5 mg / m ³ |
| Oil derived from Petroleum | 64742-65-0 | Minor 35 | TLV 10 mg/m ³ |
| Oil derived from Petroleum | Mixture | Minor 65 | TLV 10 mg/m ³ |
| Anti-rust, extreme pressure | Mixture | Minor 6 | TLV 10 mg / m ³ |

IV.- FIRST AID

FIRST AID PROCEDURES:

INHALATION: Remove victim from source of exposure. Get medical attention if irritation persists.

EYES: Immediately flush with large amounts of water for 15 minutes, you should keep the lids sections of the eyeball to ensure thorough rinsing.

SKIN: Immediately remove contaminated clothing and wash thoroughly the contact area with soap and water.

INGESTION: Do not induce vomiting. If vomiting occurs, watch for spontaneous breathing difficulty and get medical attention.

SPECIAL PRECAUTIONS:

DOCTOR'S MEDICAL DATA FOR : The possible aspiration of mineral oil with high viscosity is very slight, however if aspirated petroleum products may cause severe pneumonitis (oil pneumonia) should consider instituting unwitting victims gastric lavage should be considered the use of an endotracheal tube

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V.- FIRE FIGHTING MEASURES

| | |
|-------------------------------------|------|
| Flash Point (test method ASTM D-92) | N.D. |
| Flammable or Explosive Limits | N.A. |
| Lower | N.A. |
| Upper | N.A. |
| EXTINGUISHING MEDIA | |
| Dry Chemical Powder | X |
| CO ₂ | X |
| FOAM | X |
| Water Fog | X |
| Other | |

FIRE FIGHTING PROCEDURE

Use water spray to cool containers and structures exposed to fire to protect personnel. Use water to remove spills away from sources of ignition. No drag sewers or other drainage system.

PERSONAL PROTECTION EQUIPMENT

Use Regular-out gear with SCBA.
(Self-Contained Breathing Apparatus)

SPECIAL RISKS AND HARMFUL COMBUSTION PRODUCTS

Combustible at elevated temperatures. During the thermal decomposition may be released irritating or toxic substances. Exposed firefighters must wear masks and protective equipment.

NOTE: N.A. - Not applied N.D. - Not Determined N.E. - Not established

VI.- MEASURES TO TAKE IN CASE OF ACCIDENTAL SPILL

GENERAL: Stop leak if possible without risk.

SMALL LEAK: Take up with sand or other noncombustible absorbent material and place in containers for disposal later.

LARGE SPILL: Construct a dike ahead of liquid spill for later disposal.

DISPOSAL METHOD: This material when discarded or disposed of is not specifically included as a hazardous waste in federal regulations, however, may be characteristically hazardous if it is considered corrosive toxic flammable or reactive according to Federal definitions. This substance can also become dangerous if mixed or contact with hazardous waste.

VII.- HANDLING AND STORAGE

PRECAUTIONS: Avoid extremes of temperature during storage

HANDLING: With stowed on pallets and forklifts impo to drum.

STORAGE: in a cool, well ventilated sealed containers, keep it in well ventilated areas and away from heat ignition sources and incompatible materials, do not store in unlabeled containers, not eat, drink or smoke in their storage areas.

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VIII.- EXPOSURE CONTROL /PERSONAL PROTECTION

VENTILATION: Open

BREATHING: If you feel irritation respiratory protection must be used by NIOSH (gas masks) approved.

EYES: Wear safety glasses or goggles and provide an eyewash station in work area. Do not use contact lenses when working with this substance.

GLOVES AND CLOTHING: Wear appropriate protective gloves to chemical agents.

OTHER PROTECTIVE EQUIPMENT: Face masks, apron cover arms, etc.

IX.- PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------|--------------------|
| Form | Semi-solid |
| Color | Amber |
| Odor | hydrocarbon |
| Molecular weight | N.D. |
| pH | N.D. |
| Viscosity: | solid or semisolid |
| Boiling point | 415°C |

| | |
|----------------------------|------------|
| Melting point: | N.A. |
| Relative density (water=1) | 0.91 – 1.0 |
| Water Solubility | N.A. |
| Vapor Density (air=1) | Heavy |
| Vapor Pressure (mm Hg): | N.A. |
| Evaporation Rate | N.A. |
| Volatiles, vol %: | N.A. |

NOTE: N.A. - Not applied N.D. - Not Determined N.E. - Not established

X.- STABILITY AND REACTIVITY

| | |
|----------------------------------|----------------------------------------------------------|
| Stability | Stable |
| Conditions to avoid | Contact with strong oxidizers |
| Hazardous Polymerization | N.A. |
| Incompatible materials | Oxidizer Materials |
| Hazardous decomposition products | Combustion may produce CO, CO2 and hydrocarbon reactant. |

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XI.- TOXICOLOGICAL INFORMATION

PRIMARY EXPOSURE ROUTES:

EFFECTS OF ACUTE EXPOSURE: May be irritating to skin, eyes and respiratory tract.

INHALATION: May cause irritation of the respiratory tract, exposure to high concentrations in dense fog can cause pneumonia by oil.

EYES: Slightly irritating. Contact with hot material may cause thermal burns.

SKIN: Slightly irritating repeated or prolonged contact may cause fat loss, acne, redness, itching, swelling, cracking and possible secondary infections.

INGESTION: May cause gastrointestinal disorders, Symptoms may include irritation nausea, vomiting and diarrhea.

EFFECTS OF CHRONIC EXPOSURE: Causes nausea, dizziness and vomiting.

| | |
|----------------------|-----------------------|
| LD50 (oral) | Practically non-toxic |
| LD50 (dermal) | Practically non-toxic |
| LC50 (inhalation) | Practically non-toxic |
| IRRITATING DOSE EYES | Not irritating |
| DOSE IRRITATING SKIN | Not irritating |
| EYE IRRITANT | Not irritating |
| SKIN IRRITATION | Not irritating |
| SKIN SENSITIZATION | Not sensitizing |

XII.- ECOTOXICOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous for the environment.

Mobility in soil

Toxicity

Persistence and degradability

Degradability

There are no data on the degradability of this product.

Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient >3.5

Mobility:

The product contains substances, which are insoluble in water and which may spread on water surfaces.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Other adverse effects

Not available.

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XIII.- INFORMATION REGARDING THE DISPOSAL OF PRODUCTS

Concerning the package:

The method of disposal of packaging will be provided by the user in accordance with applicable laws and regulations, according to the product characteristics.

Product listing on NOM-052-SEMARNAT-2005

Yes No

Concerning the content

The contents of the package must be disposed of according to local, state or federal regulations, as applicable.

XIV.-RELATIVE TRANSPORT INFORMATION

| Appropriate transportation Name | Lubricant Grease |
|---------------------------------|------------------|
| ID NUMBER (ONU) | N.D. |
| HAZARD CLASS | N.A. |
| Response guide No DOT | N.A. |

XV.- REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Statutory Instruments

It covers the NOM-028-STPS-2012 and NOM-056-SSA1-2012.

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XVI.- OTHER INFORMATION

Information related to this product may not be valid if it is used in combination with other materials or in other processes.

Users are responsible for the interpretation and application of this information for their own use.

| | | | |
|-----------|--------------------------------------------------------|--------|-------------------------------------------------|
| CAS | Chemical Abstract Services | DL50 | Median Lethal Dose |
| Lim. Exp. | Exposure Limit | ONU | United Nations |
| °C | Degree Celcius | DOT | USA (Departament of Tranportation) |
| N/A | Not Applicable | pH | Potential Hydrogen |
| N/D | Not Availalble | % Vol. | Volume percent (Vol %) |
| NIOSH | National Institute for Occupational Safety and Healthy | mg/m3 | Milligrams per cubic meter, Concentration unit. |
| cSt | Centistokes | mmHg | Millimeters of Mercury |
| CL50 | Lethal Concentration Average | | |

