

SAFETY DATA SHEET FOR CHEMICALS

LUBRA TURBINE HIGH PERFORMANCE 460

MSDS: LASA-200.

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 TURBINE HIGH PERFORMANCE 460 |
| Process | OIL FOR TURBINES, MULTIPLIERS, COMPRESSORS |
| Molecular Formula | MIXTURE |
| Synonyms | TURBINE OIL |

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
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ACEITES Y GRASAS
LUBRAL
LUBRICANTES

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III.- COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name: | CAS NO. | WT % | Exposure Limits-ref STPS-CPT OSHA-PEL ACGIH-TLV |
|--|------------|----------|---|
| Demulsifying additive, Anti-rust and Antioxidant | Mixture | Minor 2 | TLV 5 mg / m ³ |
| Basic derived from petroleum | 64742-65-0 | Minor 40 | TLV 10 mg / m ³ |
| Basic derived from petroleum | Mixture | Minor 65 | TLV 10 mg / m ³ |

IV.- FIRST AID

FIRST AID PROCEDURES:

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

EYES: Immediately flush with large amounts of water for 15 minutes, keeping eyelids are sections of ocular cell to ensure a thorough washing.

SKIN: Remove contaminated clothing immediately and wash the area thoroughly with soap and water.

INGESTION: Do not induce vomiting. If spontaneous vomiting occurs monitored for respiratory distress and obtaining medical care.

SPECIAL PREACUTIONS:

DATA TO PHYSICIAN: The possible aspiration of petroleum products of high viscosity is very mild, the petroleum products may cause severe pneumonitis (oil pneumonia) when considering instituting gastric lavage should be considered in unconscious victims the use of an endotracheal tube.

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V.- MEASURES OF FIREFIGHTING

| | |
|-------------------------------------|---------|
| Flash Point (test method ASTM D-92) | ≥ 235°C |
| Flammability (Explosive) Limits: | N.A. |
| Lower | N.A. |
| Upper | N.A. |
| EXTINGUISHING MEDIA | |
| PQS | X |
| CO ₂ | X |
| FOAM | X |
| Water | X |
| Other | |

FIRE FIGHTING PROCEDURE: Use water fog to cool the containers and exposed structures to protect people. Use water to remove and take away from ignition sources from the product. Don't throw to the sewer system

PERSONAL PROTECTION EQUIPMENT: Wear a mask with SCBA (self-contained breathing apparatus).

SPECIAL HAZARDS AND HAZARDOUS

COMBUSTION PRODUCTS: During Thermal decomposition could be formed toxics and irritating substances. Firefighter must use protector equipment and gas mask.

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

VI.- MEASURES TO TAKE IN CASE OF ACCIDENTAL SPILL

GENERAL: Stop leak if possible without risk.

SMALL LEAK: Collect with sand or other non-combustible absorbent material and place in containers for later discarding.

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

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

VII.- HANDLING AND STORAGE

PRECAUTIONS: Avoid extremes of temperature during storage

MANAGEMENT: To stow forklift for drum risers.

STORAGE: In sealed containers in a cool, dry, isolated, ventilated away of ignition sources and incompatible materials. not stored in containers not labeled, do not eat, drink or smoke in areas of use or storage.

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VIII.- EXPOSURE CONTROL /PERSONAL PROTECTION

VENTILATION: Open

BREATHING: If you feel irritation you should use (NIOSH) approved respiratory protection (masks Antigen)

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 for chemicals.

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

IX.- PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------|----------------|
| Physical State | Liquid |
| Color | Amber |
| Odor | To hydrocarbon |
| Molecular weight | N.A. |
| pH | N.A. |
| Viscosity: | 460 cSt @ 40°C |
| Boiling point | 415°C |

| | |
|----------------------------|------------|
| Fusion temperature | N.A. |
| Relative density (water=1) | 0.892 |
| Water Solubility | Negligible |
| Vapor Density (air=1) | Heavy |
| Vapor Pressure (mm Hg): | Men 0.1 |
| Flash point | ≥ 235 °C |

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

X.- STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| Stability | Stable |
| Conditions to avoid | Contact with strong oxidizers |
| Hazardous Polymerization | Not possible |
| Not compatible materials | Oxidizer Materials |
| Hazardous decomposition products | The combustion of the product can form CO ₂ , and active hydrocarbons |

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XI.- TOXICOLOGICAL INFORMATION

PRIMARY EXPOUSURE ROUTES:

ACUTE EXPOSITION EFFECTS: Could be irritant to skin, eyes and respiratory system.

INHALATION: the product can cause irritation in respiratory track; exposition to high concentrations can cause oil pneumonia

EYES: little irritant. The contact with hot material can cause burns.

SKIN: Little irritant, the continuous or prolonged contact can cause dermatitis

INGESTION: Can cause gastrointestinal problems.

CHRONIC EXPOSITION EFFECTS: Produce nausea, dizziness.

LD50> 500 mg / kg (oral)

Practically non-toxic

LD50> 500 mg / kg (Dermal)

Practically non-toxic

LC50> 500 mg / m3 (Inhalation)

Practically non-toxic

Irritant dose of eyes

Not irriesistible

XII.- ECOTOXICOLOGICAL INFORMATION

Dispose in accordance with applicable local, state, and federal regulations.

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.

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XIV.-RELATIVE TRANSPORT INFORMATION

| | |
|---------------------------------|---------------|
| Appropriate transportation Name | Lubricant oil |
| ID NUMBER (ONU) | 1202 |
| 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.

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 | | |

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