

AKRON® LITHIUMPLEX XP I MATERIAL SAFETY DATA SHEET

Date of issue: 6 August 2014

AKRON®
TU MUNDO EN MOVIMIENTO

1.- Product and company identification

1.1.- Chemical names: Grease Lubricant.
Product name: Akron Lithiumplex XP 1.
Chemical family: N.D.
Synonyms: Lithium Complex Grease.
Use: Automotive & Industrial Applications.

1.2.- Supplier:
Mexicana de Lubricantes S.A. de C.V.
Avenida 8 de Julio N° 2270 Z.I.
Guadalajara, Jalisco, Mexico.
Zip Code: 44940
Phone: +52(33) 3134 0576 / 3134 0500
Emergency Phone: +52(33) 3134 0579
Fax: +52(33) 3134 0542

2.- Hazards identification

- 2.1.- NFPA Hazard ID: Health 1; Flammability 1; Reactivity 0.
2.2.- Under normal conditions of use, this product is not considered hazardous.
2.3.- Chemical Hazard Pictogram:



GHS02

- 2.4.- Potential health effects: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.

3.- Composition / information on ingredients

3.1.- Chemical Composition:

Components	% wt	CAS Number
Base Oils -----	78.00 - 86.00	Mixture
Nonanedioic Acid; 1,7-Heptanedicarboxylic Acid--2.0 -- 5.0		123-99-9
Additives -----	12.0 -- 17.0	Mixture

A hazard warning is not required for this product, under OSHA hazard communication standard.

4.- First-aid measures

- 4.1.- Skin Contact: Wash off with soap and water.
4.2.- Eye Contact: Immediately flush with large quantities of cool water for at least 15 minutes. Get medical attention.
4.3.- Ingestion: Do not induce vomiting. Get medical attention.
4.4.- Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

5.- Fire-fighting measures

- 5.1.- Extinguishing Media:
Appropriate Extinguishing Media: Water Spray (fog), dry chemical, foam, halon, or carbon dioxide. Inappropriate Extinguishing Media: Water stream may splash burning liquid and spread fire.
5.2.- Fire Fighting:
Fire Fighting Procedures: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply. Fire fighters should use self-contained breathing apparatus (SCBA) to fight fires. Use water spray to cool fire exposed surfaces and to protect personnel.
5.3.- Hazardous Combustion Products: Incomplete combustion products, Smoke, Fume, Sulfur oxides, oxides of carbon.
5.4.- Flammability Properties:
Flashpoint (Cleveland Open Cup): 215°C (419°F).
Flammable Limits (Approximate volume% in Air): LEL: N.A. UEL: N.A.

6.- Accidental release measures

- 6.1.- Notification Procedure: Contain any spills with absorbents to prevent migrations and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

6.2.- Spill Management:

Land Spill: Contain any spills with absorbents to prevent migrations and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

Water Spill: Confine the spill immediately with booms. Stop leak, if you can do so without risking personal safety. Report spills as required to appropriate authorities. Remove from the surface by skimming or with suitable absorbents.

6.3.- Environmental Precautions:

Large spills should be diked for later recovery or disposal. Spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May also require excavation of contaminated soil. To the best of Royal Manufacturing Company, LP knowledge, this product is not regulated by CERCLA/RCRA as a hazardous waste or material.

However, this product has not been tested for the toxicity characteristic via the Toxicity Characteristic Leaching Procedure.

Therefore, it may be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state and federal.

7.- Handling and storage

7.1.- Handling: Avoid contact with skin. Prevent spills and leaks to avoid slipping hazards.

7.2.- Storage: Keep containers sealed until ready for use. Avoid excessive long-term storage temperatures to prolong shelf life. Maximum storage temperature: 50°C. Store in well.

8.- Exposure controls / personal protection

8.1.- Exposure limits/standards for materials that can be formed when handling this product: When mists/aerosols can occur, the following are recommended: 5 mg/m³ – ACGIH TLV, 10 mg/m³ – ACGIH STEL, 5 mg/m³ – OSHA PEL

8.2.- Engineering Control: The level of protection and types of control necessary will vary depending upon potential exposure conditions. Under normal conditions, no special control required when used in a well-ventilated area with local exhaust ventilation.

8.3.- Personal Protection: Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

8.4.- Respiratory Protection: None required in normal use. Use only NIOSH/MSHA Organic vapor approved equipment if necessary.

8.5.- Hand Protection: Chemical resistant gloves are recommended. No protection is required in normal use.

8.6.- Eye Protection: Goggles or safety glasses with side shields are recommended.

8.7.- Skin and Body Protection: Chemical / oil resistant clothing if contact with material is likely. NO skin protection is ordinarily required under normal conditions of use.

8.8.- Special Hygiene Measures: Practice good personal hygiene. Wash hands after use and handling.

Environmental Control: See Section 6, 7, 12, 13.

9.- Physical and chemical properties

9.1.- Physical Description:

9.2.- Physical state: Semi solid.

9.3.- Color: Brown.

9.4.- Melting point / range: 230°C.

9.5.- Boiling point / range: >300°C.

9.6.- Autoflammability: Not tested.

9.7.- Explosive Properties: Not tested.

9.8.- Odor: Characteristic.

9.9.- Flash Point base oil: 215°C (COC).

9.10.-Viscosity base oil: 150 cSt @ 40°C.

10.- Stability and reactivity

10.1.-Hazardous Decomposition Products: None.

10.2.-Chemical Stability: Stable at temperatures above 230°C (446°F).

10.3- Conditions to avoid: Excessive heat. High energy sources of ignition.

10.4.-Materials to avoid: Heat, open flame and strong oxidizing agents.

10.5.-Hazardous Decomposition Products: Thermal decomposition or burning may release Oxides of Carbon, Sulfur and Nitrogen.

11.- Toxicological information

11.1.-Eye Effects: No product toxicology data available. The hazard evaluation was based on data on the components.

11.2.-Skin Effects: No product toxicology data available. The hazard evaluation was based on data on the components.

11.3- Acute Oral Effects: Toxicity (Rat) LC₅₀ > 5000 mg/kg. The hazard evaluation was based on test data for structurally similar.

11.4.-Routes of Exposure: Exposure will most likely occur through skin contact or form inhalation of mechanically or thermally generated oil mists.

11.5.-Additional Toxicology Information: This material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA Hazard Communication Standard 29CFR 1910.1200, IARC, or the National Toxicology Program (NTP) at a concentration greater than 0.1%

12.- Ecological information

12.1.-Ecotoxicity: This material is not expected to present any environmental problems other than those associated with oil spills.

12.2.-Environmental Fate: No data available.

12.3.-Persistence and degradability:
Biodegradation: N.D.

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13.- Disposal considerations

13.1.- Disposal Considerations: Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

14.- Transport information

14.1.- DOT Shipping Name: Not designated as a hazardous material by the Federal DOT.

14.2.- DOT Hazard Class: Not applicable.

14.3.- DOT Identification Number: Not applicable.

14.4.- DOT Packaging Group: Not applicable.

The description shown may not apply to all shipping situations.
Consult 49CFR, or appropriate regulations, for additional description requirements.

15.- Regulatory information

SARA (311/312) Categories:

15.1.- Immediate (Acute) Health Effects: No.

15.2.- Delayed (Chronic) Health Effects: No.

15.3.- WHIMS CLASSIFICATION: This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

15.4.- NOM-018-STPS-2000 "Sistema para la identificación y comunicación de peligros y riesgos por sustancias químicas peligrosas en los centros de trabajo".

15.5.- NOM-010-STPS-1999 "Condiciones de seguridad e higiene en los centros de trabajo donde se manejen, transporten, procesen o almacenen sustancias químicas capaces de generar contaminación en el medio ambiente laboral".

15.6.- NOM-004-SCT-2008 "Sistema de identificación de unidades destinadas al transporte de sustancias, materiales y residuos peligrosos".

15.7.- Akron Specification 9.91 Akron Lithiumplex XP 1.

15.8.- NIOSH "Pocket Guide to Chemical Hazards".

15.9.- NFPA 325 "Guide to Fire Hazard Properties of flammable liquids, gases and volatile solids".

15.10. Changes have been made throughout this Material Safety Data Sheet and revises this MSDS to comply with the ANSI Z400.1 Standard.

16.- Other information



■ Health	0 Least
■ Flammability	1 Slight
■ Reactivity	2 Moderate
□ Risk	3 High
	4 Extreme