



SINOPEC
High Temp EP Lithium Complex
NLGI 2



Material Safety Data Sheet

Not classified as hazardous

1. PRODUCT IDENTIFICATION

Product Name	SINOPEC High Temp EP Lithium Complex Grease NLGI2
Recommended Use	Suitable for lubricating bearings and gears of high load mechanical equipment which work on temperatures of -20°C to 160°C. And it can be used in centralized lubrication systems.
Product Name	

2. COMPOSITION

Chemical Name	CAS Registry No.	Concentration %
Thickner	Proprietary Mixture	5-20%
Additive	Proprietary Mixture	<8%
Base Oil	Proprietary Mixture	75-88%

3. HAZARDS INFORMATION

Hazard Classification	Not classified as hazardous
	The International Agency for Research on Cancer (IARC) has determined there is sufficient evidence for carcinogenicity in experimental animals of used oil.
	Under normal conditions of intended use, this product does not pose a risk to health.
	Excessive exposure my result in eye, skin or respiratory irritation.
4. FIRST AID MEASURES	

Eye	Flush with water for 15 minutes. If irritation occurs, get medical attention.
Skin	Flush skin with water, and then wash with soap and water. If irritation or pain persists or there is visible tissue damage, get medical attention. If material is injected under the skin, seek medical attention immediately.
Inhalation	Remove victim to fresh air and provide oxygen. Get medical attention
Ingestion	Do not induce vomiting unless recommended by physician. Get medical attention.
Note to Physician	Cure according to symptoms.

5. FIRE FIGHTING MEASURES

NFPA Classification	Class IIIB
Extinguishing Media	Use carbon dioxide, dry chemical or foam.
Hazards from Combustion	Under fire conditions, this product my emit toxic and/or irritating fumes including nitrogen oxides, carbon oxides, sulfur oxides and inorganic and organic compound.
Product Specific Hazards	Combustible liquid. This product will readily burn under fire conditions.
Protection of Firefighter	Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to prevent exposure to vapor or fumes.
Extinguishing Method	Spray

Hazardous Combustion Products Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Forbidden Media Water

6. ACCIDENTAL RELEASE MEASURES

Protective Measures Take care of your own safety before attempting any cleanup. Wear appropriate protective equipment when cleaning up spills.

Spill Management Comply with all local laws and regulations

FOR LARGE SPILLS: Contain spill and remove with vacuum truck or pump to storage/salvage vessels. In outdoor environments, seek professional cleanup advice.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

7. HANDLING AND STORAGE

Storage Do not store in open or unlabeled containers. Store in cool, dry place with adequate ventilation. Keep away from open flame, sparks and high temperature.

Empty Container Warning Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat or flame. Empty containers may contain residues that could ignite under force and severe conditions.

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls Provide adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-approved organic vapor respirator with a dust/mist prefilter, in accordance with OSHA requirements (29 CFR 1910.134) must be worn.

Respiratory Protection Chemical googles or safety glasses with side shields.

Eye Protection Use protective gloves that are chemically resistant to material.

Hand Protection Use protective clothing and shoes which are chemically resistant to this material.

Personal Protection Wash hands and exposed areas with soap and water before eating, drinking, smoking, using the facilities or after contact with product.

Note to Sanitation

Occupational Exposure Guidelines

Substance	Acceptable Workplace Exposure Levels	
Oil Mist, Mineral	ACGIH (United States)	TWA: 5mg/m ³ 8 hour(s) STEEL: 10mg/m ³ 15 minute(s)
	OSHA (United States)	TWA: 5mg/m ³ 8 hour(s)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Smooth buttery liquid

Melting Point

No data available

Color Light yellow to brown

Boiling Point

No data available

Odor No peculiar smell

Solubility in Water

Negligible

Vapor Pressure

No data available

Flash Point

No data available

Dropping Point

300°C

Cone Penetration

265 ~ 295

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling
Conditions to Avoid	Extreme heat and high energy sources of ignition
Materials Incompatibility	Strong oxidizing agents and strong acids
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes including nitrogen oxides, carbon oxides, sulfur oxides and inorganic organic compounds.

11. TOXICOLOGICAL INFORMATION

	ORAL TOXICITY	Acute: >5000mg/kgBW Rats. Based on testing of similar products (LD50) and/or components.
Acute Toxicity	INHALATION TOXICITY (LD50)	Acute: >10000mg/m ³ Rats. Based on testing of similar products and/or components.

12. ECOLOGICAL INFORMATION

Ecological Information	Through long time infiltration, it may product ecological toxicity.
Mobility	Floats on water. When released into the environment, absorption to sediment and soil will be the predominant behavior.
Persistence and Degradability	This product is expected to be inherently biodegradable.
Bio accumulative Potential	Bioaccumulation is unlikely due to the very low water solubility of product, therefore bioavailability to aquatic organisms is minimal, although oil spills can smother and suffocate aquatic life by preventing oxygen into the water. Oil contamination can foul and smother birds and marine animals. Do not discharge this material into waterways, drains and sewer.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Disposal, transportation, storage and/or treatment of spilled or waste material must be done in accordance RCRA regulations [40CFR 260 - 40CFR 271]. Check with state and/or local laws for further restrictions. Do not puncture, cut or weld empty containers.
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14. TRANSPORT INFORMATION

Land (DOT)	Not regulated as a hazardous material by the Department of Transportation.
Land (TDG)	Not regulated as a hazardous material by the Department of Dangerous Goods.
Sea (IMDG)	Not regulated as a hazardous material by the International Maritime Dangerous Goods Code.
Air (IATA)	Not regulated as a hazardous material by the International Air Transportation Association.

15. REGULATORY INFORMATION

OSHA Hazard	Not considered as hazardous in accordance to OSHA 29 CFR 1910.1200.
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The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.