

SINOPEC Automotive Gear Oil Heavy Duty GL-5 80W90



Material Safety Data Sheet

Not classified as hazardous

1. PRODUCT IDENTIFICATION

Product Name SINOPEC Automotive Gear Oil Heavy Duty GL-5 80W90

Common Charecteristics Liquid can be dissolved in oil

Recommended Use Gear Lubricating Oil

2. COMPOSITION

Chemical Name CAS Registry No. Concentration %

Base oil Proprietary Mixture 80-100
Additives Proprietary Mixture <20

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 repiratory irritation.

4. FIRST AID MEASURES

Eye Flush with water for 15 minutes. If irritation accurs, get medical attention.

Flush skin with water, and then wash with soap and water. If irritation or pain persists or there is visable tissue damage, get medical attention. If material is

Skin 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

Hazards from Combustion

NFPA Classification Class IIIB

Extinguishing Media Use carbon dioxide, dry chemical or foam.

Under fire conditions, this product my emit toxic and/or irritating fumes including nitrogen oxides, carbon oxides, sulphur oxides and inorganic and organic compound.

Product Specific HazardsCombustable liquid. This product will readily burn under fire conditions.

Firefighers must use full bunker gear including NIOSH-approved positive pressure self-

Protection of Firefighter contained breathing apparatus to prevent exposure to vapor or fumes.

Extinguishing Method Spray

Fumes, smoke, carbon monoxide, sulfer oxides, aldehydes and other decomposition

Hazardous Combustion Products products, in the case of incomplete combustion.

Frobidden Media Water

6. ACCIDENTAL RELEASE MEASURES

Take care of your own safety before attempting any clean-up. Wear appropriate

Protective Measures protective equiptment when cleaning up spills.

Spill Management Comply with all local laws and regulations

Contain spill and remove with vacuum truck or pump to

FOR LARGE storage/salvage vessels. In outdoor environments, seek

SPILLS: professional clean-up advice.

Soak up residue with an absorbent such as clay, sand or other

FOR SMALL suitable material. Place in non-leaking container and real tightly for

SPILLS: proper disposal.

7. HANDLING AND STORAGE

Storage

Odor

Exposure Controls

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.

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

Empty Container Warning and severe conditions.

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Provide adequate ventilation to control airborne concentrations below the exposure

guidelines/limits.

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

Respiratory Protection be worn

Eye Protection Chemical googles or saftey glasses with shide shields.

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

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

Wash hands and exposed areas with soap and water before eating, drinking, smoking,

Note to Sanitation using the facilities or after contact with product.

Occupational Exposure Guidelines

Substance Acceptable Workplace Exposure Levels

Oil Mist, ACGIH (United States) TWA: 5mg/m³ 8 hour(s)

Mineral STEL: 10mg/m³ 15 minute(s)

OSHA (United States) TWA: 5mg/m³ 8 hour(s)

9. PHYSICAL AND CHEMICAL PROPERTIES

No peqculiar smell

Physical State Liquid Melting Point No data available

ColorBrown and transparentBoiling PointNo data available

Solubility in Water Negligable
Vapor Pressure <0.5 Pa @ 20°C

Flash Point >200°C

Kinematic Viscosity 138 cSt @ 40°C

14.5 cSt @ 100°C

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 Under fire conditions this product may emit toxic and/or irritating fumes including

Products nitrogen oxides, carbon oxides, sulper oxides and inorganic organic compounds.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICIY Acute: >5000mg/kgBW Rats. Based on testing of similar products

(LD50) and/or components.

INHALATION Acute: >10000mg/m3 Rats. Based on testing of similar products

TOXICIY (LD50) and/or components.

12. ECOLOGICAL INFORMATION

Acute Toxicity

Ecological Information Through long time infiltration, it may product ecological toxcity.

Floats on water. When released into the environment, absorption to sediment and soil

Mobility will be the predominant behavior.

Persistance and Degradability This product is expected to be inherently biodegradable.

Bioaccumulation is unlikely due to the very low water solubility of product, therefore bioavailbility to aquatic organisms is minimal, although oil spills can mother and suffocate aquatic life by preventing oxygen into the water. Oil contamination can foul

and smother birds and marine animals. Fo not discharge this material into

Bioaccumulative Potential waterways, drains and sewer.

13. 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

Disposal Considerations containers.

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.

Not regulated as a hazardous material by the International Maritime Dangerous

Sea (IMDG) Goods Code.

Not regulated as a hazardous material by the International Air Transportation

Air (IATA) Association.

15. REGULATORY INFORMATION

OSHA Hazard Not considered as hazardous in accordance to OSHA 29 CFR 1910.1200.

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.