

SINOPEC Environmentally Friendly Coolant YF-2A



Material Safety Data Sheet

Not classified as hazardous

1. PRODUCT IDENTIFICATION

Product Name SINOPEC L-DAB Environmentally Friendly Coolant YF-2A

Common Characteristics Liquid can be dissolved in oil

Recommended Use Heat transmission media for engine cooling systems.

2. COMPOSITION

Chemical Name

CAS Registry No.

Proprietary Mixture

Proprietary Mixture

>80

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 occurs, get medical attention.

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

Skin 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, sulfur oxides and inorganic and organic compound.

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

Firefighters must use full bunker gear including NIOSH-approved positive pressure

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

Extinguishing Method Spray

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

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

Forbidden Media Water

6. ACCIDENTAL RELEASE MEASURES

Take care of your own safety before attempting any cleanup. Wear appropriate

Protective Measures protective equipment 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 cleanup 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

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 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

Respiratory Protection be worr

Eye Protection Chemical googles or safety glasses with side 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 STEEL: 10mg/m³ 15 minute(s)

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidMelting PointNo data availableColorReddish PinkBoiling PointNo data available

Odor No peculiar smell Solubility in Water Negligible

Vapor Pressure No data available

Flash Point >204°C pH 8.5

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

TOXICITY (LD50) and/or components.

12. ECOLOGICAL INFORMATION

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

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

soil will be the predominant behavior. Mobility

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

> Bioaccumulation is unlikely due to the very low water solubility of product, therefore bioavailability 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. Do not discharge this material into

waterways, drains and sewer.

Bio accumulative Potential

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.