

SAFETY DATA SHEET



Date Issued : 03/12/2015
SDS No : 0120
Date Revised : 07/03/2018
Revision No : 2

ZEROL® ESTER 100

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ZEROL® ESTER 100

PRODUCT DESCRIPTION: Synthetic Performance Refrigeration Lubricant

MANUFACTURER

Shrieve Chemical Products
 1755 Woodstead Ct
 The Woodlands, TX 77380

Emergency Contact: Audris King

Emergency Phone: (800) 424-9300

Customer Service: (800) 367-4226

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC: 800-424-9300

2. HAZARDS IDENTIFICATION

GHS LABEL

This product is not classified as hazardous according to 29CFR 1910.1200.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Polyol Ester	100	Proprietary

COMMENTS: *Ingredients and composition are withheld as trade secret in accordance with 29CFR1910.1200(i).

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Immediately rinse skin with plenty of water. If irritation occurs, remove affected clothing. Get medical attention if irritation persists. Wash affected clothing separately before reuse.

INGESTION: If large amounts are swallowed or if you feel unwell, seek medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get immediate medical attention if symptoms persist.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: May cause gastrointestinal irritation, nausea, and diarrhea.

INHALATION: Not expected to cause irritation under normal conditions. May cause irritation of nose, mucous membranes, and throat when exposed to vapors or mists.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Non-flammable.

GENERAL HAZARD: Do NOT use water stream or water jet.

EXTINGUISHING MEDIA: Dry chemical, CO₂, Foam, Fog.

OTHER CONSIDERATIONS: Keep adjacent containers cool with water spray.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

FIRE FIGHTING EQUIPMENT: In case of fire, wear a full-face positive pressure self contained breathing apparatus and protective suit.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Contain and soak up spill with non-combustible absorbent material. Dampen and scoop spilled material into suitable containers, seal and label.

LARGE SPILL: Avoid contact with skin and eyes. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risk. Absorb or contain liquid with non-combustible absorbent material. Place in a labelled, sealable container for subsequent safe disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Prevent material from entering drains or watercourses using sand, earth or other appropriate barriers.

LAND SPILL: Prevent contamination of the soil.

GENERAL PROCEDURES: Do not touch or walk through spilled materials. Avoid contact with spilled materials. Use appropriate personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Caution: surfaces may become slippery after spillage. Clean contaminated surfaces thoroughly.

SPECIAL PROTECTIVE EQUIPMENT: Use protective equipment recommended in Section 8.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Handle in accordance with good industrial hygiene and safety practices.

HANDLING: Avoid contact with skin and eyes. Wash hands before eating, drinking, or smoking.

STORAGE: Keep container tightly closed in a dry, well-ventilated place away from heat, open flame, or sources of ignition. Store away from incompatible materials (see section 10).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide adequate ventilation. Eye washes and showers for emergency use.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical splash goggles; add a face shield when transferring material.

SKIN: Use protective clothing, sleeves, boots, face protection and chemical resistant gloves.

RESPIRATORY: Under normal conditions, respiratory equipment is not necessary. Wear suitable respiratory equipment if risk of insufficient ventilation or risk of breathing mists or vapors from heated materials.

PROTECTIVE CLOTHING: Wear full protective clothing and chemical resistant gloves to prevent prolonged skin contact.

WORK HYGIENIC PRACTICES: Wash hands, forearms and face before eating, drinking, smoking and using the restroom. Launder contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Clear, pale yellow.

COLOR: Clear/faintly yellow

PHYSICAL STATE COMMENTS: Clear, bright, viscous.

pH: Not Available

FLASH POINT AND METHOD: 265°C COC-ASTM D-92

FLAMMABLE LIMITS: Not Available

AUTOIGNITION TEMPERATURE: Not Available

POUR POINT: -27°C

DENSITY: 0.954 at 15°C

Notes: g/cm³

VISCOSITY #1: 95 cSt at 40°C

VISCOSITY #2: 11 cSt at 100°C

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur.

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid contamination with foreign materials.

POSSIBILITY OF HAZARDOUS REACTIONS: None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

INCOMPATIBLE MATERIALS: Strong oxidizers, strong alkalis, strong acids, strong bases.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: Not Available

ORAL LD₅₀: Not Available

SKIN CORROSION/IRRITATION: Prolonged or repeated contact may dry skin and cause irritation.

SERIOUS EYE DAMAGE/IRRITATION: Not a primary irritant.

RESPIRATORY OR SKIN SENSITISATION: Not Available

GERM CELL MUTAGENICITY: Not Available

CARCINOGENICITY

NOTES: Not Available

REPRODUCTIVE TOXICITY: Not Available

STOT-SINGLE EXPOSURE: Not Available

STOT-REPEATED EXPOSURE: None Expected.

ASPIRATION HAZARD: Not classified as an aspiration hazard.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not classified as an environmental hazard.

BIOACCUMULATION/ACCUMULATION: Not expected to bio-accumulate.

DISTRIBUTION: Low mobility due to low water solubility.

AQUATIC TOXICITY (ACUTE)

Notes: Not Available

CHEMICAL FATE INFORMATION: Readily biodegradable.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of contents/container to a licensed contractor or facility in accordance with local, state and federal regulations.

PRODUCT DISPOSAL: The preferred options for disposal include reuse, recycling, co-processing, finding a use for by-product, incineration or other thermal destruction at licensed facilities.

EMPTY CONTAINER: Clean container thoroughly and dispose to licensed disposal contractor. Do not weld, cut, or braze empty containers, or allow product residue to come in contact with other sources of ignition as they may contain residue which could ignite.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated for transport

AIR (ICAO/IATA)

SHIPPING NAME: Not regulated for transport

VESSEL (IMO/IMDG)

SHIPPING NAME: Not regulated for transport

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Not regulated for transport

15. REGULATORY INFORMATION

UNITED STATES

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All components listed or exempt.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119--PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: Contains no PSM ingredients at detectable levels.

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals at detectable levels known to the State of California to cause cancer, birth defects, or any other reproductive harm.

CANADA

DOMESTIC SUBSTANCE LIST (INVENTORY): All components are listed or exempt.

16. OTHER INFORMATION

REASON FOR ISSUE: Updated physical properties.

APPROVED BY: Audris King **TITLE:** HS&E Manager

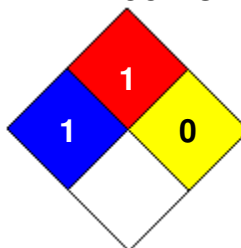
PREPARED BY: Britton Webb **Date Revised:** 07/03/2018

REVISION SUMMARY: This SDS replaces the 06/22/2016 SDS. Revised: **Section 11:** ASPIRATION HAZARD, STOT-REPEATED EXPOSURE, SKIN CORROSION/IRRITATION. **Section 15:** CALIFORNIA PROPOSITION 65.

HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES



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