

SAFETY DATA SHEET



Date Prepared : 07/19/2016
SDS No : NC0139

ZEROL® RFL 68-EP (4316-95)

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ZEROL® RFL 68-EP (4316-95)

PRODUCT DESCRIPTION: High performance novel polyalkylene glycol lubricants for CO2 based air conditioning/refrigeration systems.

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

DISTRIBUTOR

Nu-Calgon
2008 Altom Court
St. Louis, MO 63146

Emergency Phone: 800-554-5499

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC: 800-424-9300

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 4

GHS LABEL



Exclamation
mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H302: Harmful if swallowed.

PRECAUTIONARY STATEMENTS

Prevention:

P270: Do not eat, drink or smoke when using this product.

P264: Wash skin thoroughly after handling.

Response:

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P330: Rinse mouth.

Disposal:

P501: Dispose of contents/container to a licensed contractor in accordance with local, state and federal regulations.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Harmful if swallowed.

POTENTIAL HEALTH EFFECTS

INGESTION: Harmful if swallowed. May cause vomitings, diarrhea.

INHALATION: Exposure to vapour at high concentrations may cause irritation of the nose, mouth, throat and respiratory tract. Repeated exposure to aerosols may result in lung damage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Double End Capped PAG	*	Proprietary
Additive Package	*	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 wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention if you feel unwell.

INHALATION: Remove to fresh air. If breathing is difficult seek medical attention.

NOTES TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry Chemical, CO₂, Foam. Water Spray.

HAZARDOUS COMBUSTION PRODUCTS: May produce hazardous fumes.

FIRE FIGHTING PROCEDURES: Do not use a water jet.

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

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Contain and soak up spill with absorbent material and provide adequate ventilation.

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: Avoid contact with skin or eyes. Avoid contact with spilled materials. Use appropriate personal protective equipment.

7. HANDLING AND STORAGE

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

HANDLING: Use only in a well ventilated area. Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin, and clothing.

STORAGE: Keep container tightly closed in a dry, well-ventilated place.

STORAGE TEMPERATURE: Store in a cool place below 120°F/49°C under nitrogen blanket as this product is hygroscopic. For prolonged storage above 60°C, store in rust free container using nitrogen blanket.

STORAGE PRESSURE: Atmospheric.

SPECIAL SENSITIVITY: This is a hygroscopic product. Avoid open containers, exposure to humidity and contact with water.

COMMENTS: Recommended storage container materials are rust free mild steel or stainless steel.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Eye washes and showers for emergency use.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) or a face shield.

SKIN: Use chemically resistant gloves; appropriate materials are PVC. Nitrile.

RESPIRATORY: Use appropriate protection if there is risk of breathing the mists or vapors or 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

ODOR: Mild

APPEARANCE: Water white to faintly yellow.

PHYSICAL STATE COMMENTS: Clear, bright, viscous.

FLASH POINT AND METHOD: > 200°C COC-ASTM D-92

FLAMMABLE LIMITS: Not Available

AUTOIGNITION TEMPERATURE: Not Available

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Available

BOILING POINT: Not Available

POUR POINT: -46°C

THERMAL DECOMPOSITION: Not Available

SOLUBILITY IN WATER: Partially Soluble

EVAPORATION RATE: Not Available

SPECIFIC GRAVITY: 0.998 at 20°C

VISCOSITY #1: 68 cSt at 40°C

VISCOSITY #2: 15.7 cSt at 100°C

Notes: Viscosity Index: 213

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Heat, sparks, open flames. Avoid heating above decomposition temperature (150C) as product can emit toxic fumes.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, Aldehydes.

INCOMPATIBLE MATERIALS: Strong oxidizers, strong acids.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: No data available.

ORAL LD₅₀: 500 mg/kg

Notes: rat

INHALATION LC₅₀: No data available.

SKIN CORROSION/IRRITATION: May cause slight irritation. Repeated or prolonged contact may produce defatting of the skin

leading to irritation and dermatitis.

SERIOUS EYE DAMAGE/IRRITATION: May cause slight irritation.

RESPIRATORY OR SKIN SENSITISATION: None known.

GERM CELL MUTAGENICITY: Does not exhibit mutagenic activity in the following systems (with and without metabolic activation): Salmonella typhimurium (based on major component).

REPRODUCTIVE TOXICITY: Not Available

STOT-SINGLE EXPOSURE: Not Available

STOT-REPEATED EXPOSURE: Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

GENERAL COMMENTS: Used materials should be handled with caution. Proper health, safety, and disposal methods should be taken during handling of used materials. Avoid contact with skin and eyes.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Ecotoxicological data have not been determined specifically for this product. The information below is given based on knowledge of the components.

ECOTOXICOLOGICAL INFORMATION: Testing of a similar substance indicates material is non-toxic to aquatic life.

BIOACCUMULATION/ACCUMULATION: Not expected to bio-accumulate.

Notes: No data available.

CHEMICAL FATE INFORMATION: Expected to be partially or slowly 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.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated for transport

ROAD AND RAIL (ADR/RID): NA = Not Applicable

AIR (ICAO/IATA): NA = Not Applicable

VESSEL (IMO/IMDG): NA = Not Applicable

CANADA TRANSPORT OF DANGEROUS GOODS: NA = Not Applicable

15. REGULATORY INFORMATION

UNITED STATES

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All components listed or exempt.

CANADA

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

COMMENTS On the inventory or in compliance with the inventory of the following lists are known: EINECS, TSCA, DSL, AICS, PICCS.

16. OTHER INFORMATION

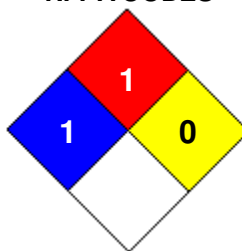
APPROVED BY: Audris King **TITLE:** HS&E Manager

PREPARED BY: Britton Webb **Date Prepared:** 07/19/2016

HMIS RATING

HEALTH		1
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		B

NFPA CODES



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