Raychem
MATERIAL SAFETY DATA SHEET

Issue No: 2 **Effective Date:** October 1994 **Serial No.:** RAY/4552

PRODUCT IDENTIFICATION

Product Name: RVC (Rayvolve® Cap)

Manufacturer: **Raychem Corporation**
300 Constitution Drive
Menlo Park, CA 94025

Chemical Name: Not applicable, mixture
CAS #: Not applicable
DOT Proper Shipping Nume: Not regulated
DOT Identification No.: Not regulated
DOT Hazard Classification: Not regulated
TSCA Inventory Status: All ingredients are listed

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE or ACCIDENT
Call CHEMTREC - Day or Night - 1-800-424-9300 Toll free in the continental U.S., Hawaii, Puerto Rico, Canada, Alaska or Virgin Islands. For calls originating elsewhere: (703) 527-3887 (collect calls accepted)

For non-emergency health and safety information, call: (650) 361-4907

HAZARDOUS INGREDIENTS

Aliphatic Glycol (CAS# Proprietary)

PHYSICAL PROPERTIES

Appearance and Odor: Black neoprene cap, with an off white to pale yellow liquid (lubricant) sealed inside. Rubbery odor. (NOTE: Physical properties below are for the lubricant only).

Boiling Point: 370°F (188°C)

Melting Point: -74°F (-59°C)

Vapor Pressure (mm Hg @ 20°C): < 0.1

Vapor Density: 2.6 @ 187°C (Air = 1)

Specific Gravity: 1.04

Evaporation Rate: Not applicable

Flash Point (°F)/Method: 225°F/Open Cup

Solubility in Water: Nearly complete

Flammable Limits in Air (volume%): lower 2.6% **upper** 12.6%

HEALTH HAZARD INFORMATION

Exposure Limits: There are no reported exposure limits for the product or its ingredients.

Toxicological Information: The health effects information below is for the lubricant only.

Health Effects/Symptoms of Exposure:

Acute (Short-Term Exposure):

Eye Contact: The lubricant in this is product may cause mild eye irritation. Direct contact with the liquid may cause stinging, tearing and redness. Persons with pre-existing eye disorders may be more susceptible to the effects of this lubricant.

Skin Contact: The lubricant in this product is a skin irritant. Direct contact may cause redness, burning, drying and/or cracking of the skin. Persons with pre-existing skin disorders may be more susceptible to the effects of this lubricant. No harmful effects are expected from skin absorption of this material.

Ingestion (Swallowing): While the lubricant in this product has a low degree of toxicity by this route of exposure, ingestion of excessive quantities may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation (Breathing): Exposure to the lubricant by inhalation is unlikely due to its low volatility.

Chronic (Long-Term Exposure):

The aliphatic glycol contained in this lubricant has caused liver abnormalities and kidney damage in long term feeding studies in laboratory animals.

Comments: This product's ingredients, present at equal to or greater than 0.1% of the product, are not listed by OSHA, NTP, or IARC as suspect carcinogens.

STORAGE, HANDLING, AND PREVENTATIVE MEASURES

Stability at Room Temperature: This lubricant is stable under normal conditions.

Conditions to Avoid: Heat, sparks, and open flames.

Incompatibilities: Strong oxidizers

Hazardous Polymerization: Will not occur. No known polymerization conditions to avoid.

Thermal Degradation and Combustion Byproducts: Thermal degradation and combustion byproducts may include, but are not limited to, carbon monoxide, carbon dioxide, nitrogen oxides, lead oxides, hydrogen chloride and low molecular weight hydrocarbons. In common with most polymeric materials, thermal degradation and combustion byproducts are likely to be toxic and should not be inhaled.

Handling: Avoid skin and eye contact with the lubricant. Wash hands thoroughly after handling.

Other Precautions: Store in a cool, dry, well-ventilated place away from incompatible materials.

Disposal: Dispose of in accordance with all local, state and federal regulations. This material is not considered a hazardous waste according to Federal EPA standards. Classification according to state and local standards is required before disposal.

Ventilation: In accordance with good industrial hygiene practice, ensure adequate ventilation during use.

Respiratory Protection: If installation occurs in a confined, unventilated area, NIOSH/MSHA-approved air-supplied respirators are recommended.

Protective Clothing: Chemical goggles and polyethylene gloves are suggested if eye or skin contact with the lubricant is anticipated.

Installation: Please refer to the Raychem installation guide.

EMERGENCY AND FIRST AID PROCEDURES

NOTE: Emergency and First Aid Procedures are for exposure to the lubricant only.

Eyes: Hold eyelids apart and flush affected eye(s) immediately with plenty of clean water. If irritation develops, seek immediate medical attention.

Skin: Immediately wash affected area(s) with mild soap and water. Remove contaminated clothing and shoes. If irritation develops, seek immediate medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Ingestion: Ingestion of this lubricant is highly unlikely. If swallowed and symptoms develop, seek medical attention.

Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim to fresh air. If symptoms persist, seek medical attention. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. Keep victim warm and quiet; seek immediate medical attention.

Steps to be Taken in Case of Release or Spill: Wear appropriate personal protection when responding. Contain the spill with inert absorbent. Take measures to stop the spillage at the source. Transfer the contaminated absorbent into a container and dispose in accordance with state and local regulations.

Unusual Fire and Explosion Hazards: Toxic fumes may evolve in a fire. See section on Thermal Degradation and Combustion Byproducts and Other Precautions.

Special Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires. Use water spray to cool nearby containers and structures exposed to fire.

Extinguishing Media: carbon dioxide X **water** X **dry chemical** X **foam** __ **other** __

Data Sheet Prepared By: Linda Massey, Corporate Toxicology **Date:** October 1994

Data Sheet Approved By: Kathy Maher, Electrical Products Division **Date:** October 1994