

MATERIAL SAFETY DATA SHEET

I - PRODUCT IDENTIFICATION

COMPANY NAME: Calgon Vestal Laboratories		Tel No: (314)535-1810
ADDRESS: 5035 Manchester Avenue Saint Louis, Missouri 63110		Nights: (314)862-2000 CHEMTREC: (800)424-9300
PRODUCT NAME: Zero1 Refrigeration Fluid 150	Product No.: 4310	
Synonyms: Refrigeration Fluid		

II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL: (CAS#)	% By Wt.	TLV	PEL
Alkyl Benzene (68648-86-2)	100	N/A	N/A

III - PHYSICAL DATA

Vapor Pressure, mm Hg: N/A Evaporation Rate(ether=1): N/A Solubility in H2O: Insoluble Freezing Point F: N/AV Boiling Point F: 315C Specific Gravity H2O=1 @25C: 0.87	Vapor Density (Air=1)60-90F: N/A % Volatile by wt N/A pH @ N/AV Solution N/AV pH as Distributed: N/AV Appearance: Water white liquid Odor: Characteristic
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IV - FIRE AND EXPLOSION

Flash Point F: (COC) 311F (MIN)	Flammable Limits: N/A
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Extinguishing Media: CO2,dry chemical,foam,water fog.

Special Fire Fighting Procedures: For fires involving this material,do not enter any enclosed or confined fire space without proper protective equipment.This may include self-contained breathing apparatus to protect against the hazardous effect of normal products of combustion or oxygen deficiency.Read entire MSDS.  
Unusual Fire and Explosion Hazards: N/AV

V - REACTIVITY DATA

Stability - Conditions to avoid: Stable

Incompatibility: May react with strong oxidizing materials.

Hazardous Decomposition Products: Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide

Conditions Contributing to Hazardous Polymerization: Will not occur.

EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects,  
A. ACUTE (Primary Route of Exposure) EYES: Application into the eyes of rabbits produced slight membrane irritation without corneal injury. SKIN: Product may cause skin irritation on prolonged or frequently repeated contact. Application onto the skin of rabbits produced moderate erythema and edema. INGESTION: Not expected to be acutely toxic. (ORAL LD50 Rats >5g/kg). INHALATION: Not acutely toxic.  
B. SUBCHRONIC, CHRONIC, OTHER: No available information was found.

VII - EMERGENCY AND FIRST AID PROCEDURES

EYES: Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. If irritation persists, see a doctor. SKIN: Wash skin thoroughly with soap and water. See a doctor if rash or burn occurs. Launder contaminated clothing. INGESTION: If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest emergency treatment center or hospital.

VIII - SPILL OR LEAK PROCEDURES

Spill Management: Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills with absorbent material and remove contaminated soil. Report and respond to larger releases.

Waste Disposal Methods: Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local authorities for approved disposal.

IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: None normally required.	Eye: Safety goggles	Glove: Rubber
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Other Clothing and Equipment: Wear impervious clothing.

Ventilation: N/AV

X - SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing: Do not weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. CAUTION! Do not use pressure to empty drum or explosion may result.

Additional Information: Read and observe all label precautions.

Prepared by: R.C. Jente

Revision Date: 08/10/87

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

This product has been custom manufactured for Calgon Vestal Laboratories. The data in this Material Safety Data Sheet (MSDS) has been transferred from the manufacturers MSDS to Calgon Vestal's computerized system. A copy of the original manufacturers MSDS is available on request.