

Chemical Name: Zerol 150 Alkylbenzene Refrigeration Oil

Manufacturer: Nu-Calgon Wholesaler, Inc.

Container size: 1 gallon

Location: VLA

Disposal: Place empty container in trash.



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name		2	Zerol 150 (4310)
CAS #		Ν	Mixture
Product use		(Oil
Manufacturer		2	Nu-Calgon 2008 Altom Court St. Louis, MO 63146 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)
LEGEND HMIS/NFPA			Health / 1
Severe	4		Flammability 1
Serious3Moderate2Slight1		Physical Hazard 0	
Minimal	0		Personal Protection X

2. Hazards Identification

Emergency overview	Contact may cause eye and skin irritation.
Potential short term health effe	ects
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	May cause minor irritation.
Skin	Based on test data, not expected to be a primary skin irritant.
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
Ingestion	May cause stomach distress, nausea or vomiting.
Target organs	Skin. Eyes.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients		
Composition comments	This product is considered non hazardous by WHMIS/OSHA criteria.	
	4. First Aid Measures	
First aid procedures		
Eye contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.	
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.	
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.	
Ingestion	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.	
Notes to physician	Symptoms may be delayed.	
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.	

5. Fire Fighting Measures

Flammable properties	Not flammable by WHMIS/OSHA criteria.	
Extinguishing media		
Suitable extinguishing media	Carbon dioxide. Dry chemical. Fog. Foam.	
Unsuitable extinguishing media	Not available	
Protection of firefighters		
Specific hazards arising from the chemical	Not available	
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.	
Hazardous combustion products	May include and are not limited to: Oxides of carbon.	
Explosion data		
Sensitivity to mechanical impact	Not available	
Sensitivity to static discharge	Not available	

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.
	7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material.	
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials.	

8. Exposure Controls / Personal Protection

Engineering controls	General ventilation normally adequate.	
Personal protective equipment		
Eye / face protection	Safety glasses if eye contact is possible.	
Hand protection	Rubber gloves. Confirm with a reputable supplier first.	
Skin and body protection	As required by employer code.	
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Avoid breathing mists or vapors.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.	

9. Physical & Chemical Properties

Appearance	Clear.
Color	Yellow
Form	Liquid
Odor	Odorless
Odor threshold	Not available
Physical state	Liquid
рН	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	> 300 °C (> 572.00 °F)

Flash point	> 150 °C (> 302.00 °F) Cleveland Open Cup
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.86 - 0.88
Octanol/water coefficient	Not available
Solubility (H2O)	Negligible
Auto-ignition temperature	> 340 °C (> 644.00 °F)
Viscosity	26 - 31 cSt @ 40°C
Percent volatile	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.	
Conditions to avoid	Do not mix with other chemicals.	
Incompatible materials	Oxidizers.	
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.	
Possibility of hazardous reactions	Hazardous polymerization does not occur.	

11. Toxicological Information

Effects of acute exposure	
Eye	May cause minor irritation.
Skin	Based on test data, not expected to be a primary skin irritant.
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.

12. Ecological Information

Ecotoxicity	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

	15. Regulatory Information		
Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the C Products Regulations and the MSDS contains all the information required by th Controlled Products Regulations.		
US Federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSH Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.	IA	
	CERCLA/SARA Hazardous Substances - Not applicable.		
Occupational Safety and Health Ad	ministration (OSHA)		
29 CFR 1910.1200 hazardous chemical	No		
CERCLA (Superfund) reportable qu	lantity		
None			
Superfund Amendments and Reaut	thorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No		
Section 302 extremely hazardous substance	No		
Section 311 hazardous chemic	al No		
Clean Air Act (CAA)	Not available		
Clean Water Act (CWA)	Not available		
Safe Drinking Water Act (SDWA)	Not available		
Drug Enforcement Agency (DEA)	Not available		
Food and Drug Administration (FDA)	Not available		
WHMIS status	Not Controlled		
State regulations	This product does not contain a chemical known to the State of California to ca cancer, birth defects or other reproductive harm.	use	
Inventory name			
Country(s) or region	Inventory name On inventor	y (yes/no)*	
Canada	Domestic Substances List (DSL)	Yes	
Canada	Non-Domestic Substances List (NDSL)	No	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	
A "Yes" indicates that all components o	f this product comply with the inventory requirements administered by the governing country(s)		

16. Other Information

Disclaimer	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
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