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PDF Version of MSDS

I - PRODUCT IDENTIFICATION

Company Name: Nu-Calgon Wholesaler, Inc. **Tel No:** (314) 469-7000, (800) 554-5499
Address: 2008 Altom Court, St. Louis, MO 63146-4151 **CHEMTREC:** (800) 424-9300
Product Name: Zerol Ice **Product Number:** 4312-50
Synonyms: Lubricant

II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL	CAS#	% By Wt	TLV	PEL
Lubricant		55-75		
Propellant, 1-chloro, 2,3-fluoro methane		25-45		

Composition/specific chemical identities are withheld as a trade secret under the provisions of OSHA Hazard Communication Standard 29 CFR 1910.1200.

All ingredients are TSCA listed.

III - PHYSICAL DATA

Vapor Pressure: Not determined	Vapor Density (Air=1) 60-90°F: Not determined
Evaporation Rate:	VOC Content (% by wt.):
Solubility in H₂O: negligible	pH @ - Solution: Not applicable
Freezing Point °F: Not determined	pH as Distributed:
Boiling Point °F: 300°C at atmospheric pressure	Appearance: clear liquid lubricant
Specific Gravity H₂O=1 @25°C: 1.05	Odor: oil odor

IV - FIRE AND EXPLOSION

Flash Point F: >200°C; (COC) **Flammable Limits:** Not determined Not determined
Extinguishing Media: Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.
Special Fire Fighting Procedures: Wear full protective clothing and positive pressure breathing apparatus.
Unusual Fire and Explosion Hazards: None

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 form carbon monoxide.
Conditions Contributing to Hazardous Polymerizations: Will not occur.

VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects),
A. ACUTE (Primary Route of Exposure) EYES: Expected to cause no more than minor eye irritation. Application of a similar product into the eyes of rabbits produced very slight membrane irritation without corneal injury. Avoid eye contact as good industrial practice. **SKIN:** Not a primary skin irritant but may cause skin irritation on repeated or prolonged contact. Application of a similar onto the skin of rabbits produced slight erythmia and edema. **INHALATION:** Avoid breathing vapor or mist. Under normal use conditions, this product is not an inhalation hazard. Prolonged exposure to vapors may cause dizziness and headaches. **INGESTION:** May cause nausea. Not expected to be acutely toxic by

ingestion.

B. SUBCHRONIC, CHRONIC, OTHER:

C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

VII - EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately. Remove material from eyes, skin and clothing.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes while holding the eyelids open. If irritation persists, see a physician.

SKIN: Remove contaminated clothing. Wash skin thoroughly with soap and water. Launder contaminated clothing. See a doctor if irritation persists.

INGESTION: If swallowed, call a physician immediately. ONLY induce vomiting at the direction of a physician. Never give anything by mouth to an unconscious person. If medical advice cannot be obtained, take the person, product container and MSDS to the nearest medical emergency center.

VIII - SPILL OR LEAK PROCEDURE

Spill Management: Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin and clothing.

Waste Disposal Methods: This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: Airborne concentrations should be kept to lowest levels possible. If vapor, dust or mist is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Eye Protection: Safety glasses, chemical type goggles or face shield recommended to prevent eye contact. **Glove:** Chemical resistant gloves.

Other Clothing and Equipment: Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

Ventilation: Local exhaust ventilation recommended if generating vapor, dust or mist. If exhaust ventilation is not available or adequate, use NIOSH or MSHA approved respirator as appropriate. No exposure limit has been established for the product.

X - SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing: Wear protective clothing where possible. Launder as required. Skin exposed to product should be washed several times daily with soap and water.

Additional Information: None

NFPA HMIS RATING

Health Hazard.....: 1 Health Hazard.....: 1

Fire Hazard.....: 1 Fire Hazard.....: 1

Reactivity.....: 0 Reactivity.....: 0

Specific Hazard...: Personal Protection...: X (Sec. 9)

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Category: ↵REFRIGERATION OIL

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