

### **MATERIAL SAFETY DATA SHEET**

## 1. Product and Company Identification

Product Name C-3s Refrigeration Oil (4303)

CAS # Mixture
Product use Oil

Manufacturer 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	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





#### 2. Hazards Identification

**Emergency overview** Contact may cause eye and skin irritation.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.
Skin May cause irritation.

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 None 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

Not flammable by WHMIS/OSHA criteria. Flammable properties

Extinguishing media

Foam. Water spray. Dry chemical. Carbon dioxide. Suitable extinguishing media

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** 

**Explosion data** 

May include and are not limited to: Oxides of carbon.

Sensitivity to mechanical

impact

Not available

Sensitivity to static discharge

Not available

### 6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do Personal precautions

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.

Before attempting clean up, refer to hazard data given above. Small spills may be Methods for cleaning up

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.

Keep out of reach of children. Store in a closed container away from incompatible Storage

materials.

# 8. Exposure Controls / Personal Protection

General ventilation normally adequate. **Engineering controls** 

Personal protective equipment

Wear safety glasses with side shields. Eye / face protection

Rubber gloves. Confirm with a reputable supplier first. Hand protection

As required by employer code. Skin and body protection

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

Clear. **Appearance** 

Straw colored Color

Form Liquid

Odor Mild petroleum Not available Odor threshold Physical state Liquid

pН Not available -42.77 °C (-45 °F) **Melting point** Freezing point Not available

> 260 °C (> 500.00 °F) **Boiling point** 

Flash point 165.55 °C (330 °F)
Evaporation rate Not available
Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure < 0.001 mmHg @ 20°C

Vapor density> 5Specific gravity0.9129Octanol/water coefficientNot availableSolubility (H2O)Negligible

Auto-ignition temperature 343 °C (649.40 °F) VOC (Weight %) Not available

Viscosity 157.2 SUS @ 100°F

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

EyeMay cause irritation.SkinMay cause irritation.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effects (headache, dizziness).

**Ingestion** May cause stomach distress, nausea or vomiting.

SensitizationNon-hazardous by WHMIS/OSHA criteria.Chronic effectsNon-hazardous by WHMIS/OSHA criteria.CarcinogenicityNon-hazardous by WHMIS/OSHA criteria.MutagenicityNon-hazardous by WHMIS/OSHA criteria.Reproductive effectsNon-hazardous by WHMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.

# 12. Ecological Information

Ecotoxicity Components of this product are hazardous to aquatic life.

Environmental effects

Aquatic toxicity

Persistence / degradability

Bioaccumulation / accumulation

Partition coefficient

Mobility in environmental media

Chemical fate information

Not available
Not available
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

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## 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 Controlled

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

US Federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

#### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

NO

#### **CERCLA (Superfund) reportable quantity**

None

#### Superfund Amendments and Reauthorization 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 chemical No

Clean Air Act (CAA)

Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Drug Enforcement Agency (DEA)

Not available

Not available

Not available

Not available

(FDA)

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WHMIS status Not Controlled

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Inventory name

Country(s) or region Inventory name On inventory (yes/no)\*

CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

A "Yes" indicates that all components of 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

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Issue date22-Jul-2011Effective date22-Jul-2011

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