

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name Zerol 150 (4310-01, 4310-05, 4310-07)

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)

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.

May cause minor irritation. **Eves**

Based on test data, not expected to be a primary skin irritant. Skin

Excessive intentional inhalation may cause respiratory tract irritation and central nervous system Inhalation

effects (headache, dizziness).

Ingestion May cause stomach distress, nausea or vomiting.

Skin. Eyes. **Target organs**

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition/Information on Ingredients

None by WHMIS criteria. **Composition comments**

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.

Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain Ingestion

medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

Symptoms may be delayed. Notes to physician

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 criteria. Flammable properties

Extinguishing media

media

Suitable extinguishing Carbon dioxide. Dry chemical. Fog. Foam.

Unsuitable extinguishing

media

Not available

Protection of firefighters

from the chemical

Specific hazards arising Not available

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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

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

damaged containers or spilled material unless wearing appropriate protective clothing. Keep

people away from and upwind of spill/leak.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

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 to original containers for re-use.

7. Handling and Storage

Handling Ensure adequate ventilation.

Avoid contact with eyes, skin and clothing.

Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

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

8. Exposure Controls/Personal Protection

Not applicable. **Exposure limits**

General ventilation normally adequate. **Engineering controls**

Personal protective equipment

Eye/Face protection Safety glasses if eye contact is possible.

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

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 vapours.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practices. When using do not eat or

drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Clear **Appearance** Yellow Colour Liquid **Form** Odourless Odour Not available. **Odour threshold**

Physical state Liquid.

Not available pН Not available. Freezing point > 300 °C (> 572 °F) **Boiling point** Pour point Not available. Not available **Evaporation rate**

Flash point > 150.0 °C (> 302.0 °F) Cleveland open cup

> 340 °C (> 644 °F) **Auto-ignition temperature**

Flammability Limits in Air,

Upper, % by Volume

Flammability Limits in Air,

Lower, % by Volume

Not available

Not available

Not available. Heat of combustion Vapour pressure Not available. Not available Vapour density 0.86 - 0.88 Specific gravity Not available.

Partition coefficient

(n-octanol/water)

Solubility (Water) Negligible Relative density Not available. 26 - 31 cSt @ 40°C Viscosity

Not available VOC Percent volatile Not available

10. Stability and Reactivity

Reactivity

This product may react with strong oxidising agents.

Possibility of hazardous

Chemical stability

reactions

Hazardous polymerisation does not occur.

Stable under recommended storage conditions.

Do not mix with other chemicals. Conditions to avoid

Incompatible materials

Oxidizers.

Hazardous decomposition

products

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

11. Toxicological Information

Effects of acute exposure

Eye contact May cause minor irritation.

Skin contact 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.

Sensitisation Non-hazardous by WHMIS criteria. **Chronic effects** Non-hazardous by WHMIS criteria. Carcinogenicity Non-hazardous by WHMIS criteria. Non-hazardous by WHMIS criteria. Mutagenicity Non-hazardous by WHMIS criteria. Reproductive effects **Teratogenicity** Non-hazardous by WHMIS criteria.

Name of Toxicologically **Synergistic Products**

Not available.

12. Ecological Information

Not avai lable. **Ecotoxicity** Not avai lable. Persistence and degradability Bioaccumulation/accumulation Not available Not available. Mobility in environmental

media

Environmental effects Not available. Not available. **Aquatic toxicity**

Partition coefficient Not available. Not available. Chemical fate information

13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

14. Transport Information

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.

WHMIS status Not Controlled

Inventory status

Country(s) or region Inventory Name

On Inventory (Yes/No)*

Canada Domestic Substances List (DSL)

Yes

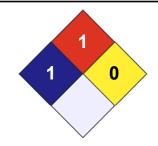
Canada Non-Domestic Substances List (NDSL)

No

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





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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Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the

document.

This MSDS conforms to the ANSI 7400.1/7129.1-2010 Standard.

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)