



Safety Data Sheet

ZEROL® 150 (4310-07, 4310-05, 4310-01)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Trade Name: ZEROL® 150 (4310-07, 4310-05, 4310-01)

Date Created

6/9/22

Synonyms:

1.2 Relevant identified uses of the substance or mixture and uses advised against

Synthetic Alkylate.

1.3 Details of the supplier of the safety data sheet

Shrieve Chemical Products

1442 Lake Front Circle

Suite 500

THE WOODLANDS, TX 77380 US

phone: (800) 367-4226 Customer Service

e-mail: cust-serv@shrieve.com

website: www.shrieve.com

DISTRIBUTOR

Nu-Calgon

2611 Schuetz Road

St. Louis, MO 63043

Emergency Phone: 800-554-5499

1.4 Emergency telephone number

CHEMTREC

800-424-9300 (US)

+1-703-741-5970 (International)

Additional Information

Poison Control: (800) 222-1222

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

2.2 Label elements

Signal Word No Signal Word

Hazard Statements

Precautionary Statements

2.3 Other hazards

No information available.

2.4 Unknown Acute Toxicity (US)

No information available.

SECTION 3: Composition/information on ingredients

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| Chemical Name | CAS Number | EC # | Concentration % by Weight | Classification |
|--|------------|------|---------------------------|----------------|
| ZEROL® 150 (4310-07, 4310-05, 4310-01) | | | 100 | |

Additional Information

Ingredients and composition are withheld as trade secret in accordance with 29CFR1910.1200(i).

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

No hazards which require special first aid measures.

After inhalation

Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

After skin contact

Wash skin with soap and plenty of water for precaution. Wash clothing before reuse.

After eye contact

Flush eyes with plenty of water for precaution.

After ingestion

Rinse mouth with water. Drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Self-protection of the first aider

No information available.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO2.

Unsuitable extinguishing media

Avoid use of water jet for extinguishing.

5.2 Special hazards arising from the substance or mixture

Some may burn but none ignite readily. Containers may explode when heated.

5.3 Advice for firefighters

Move containers from fire area if you can do it without risk. Substance may be transported hot. Runoff may cause pollution. Dike fire-control water for later disposal; do not scatter the material. Move containers from fire area if you can do it without risk. Fire involving Tanks: Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire.

Additional Information

Keep adjacent containers cool with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. Please note that materials and conditions to be avoided. Ventilate the contaminated area. Do not touch or walk through spilled material. Do not enter areas which have more than 23.5% oxygen in the atmosphere, without respirator or air supplied mask.

6.2 Environmental precautions

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Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Small Spill: Flush area with flooding quantities of water. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Large Spill: Dike far ahead of liquid spill for later disposal.

With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

6.4 Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wash hands thoroughly after handling. Be careful of high temperatures. Check the oxygen level before entering the site. Refer to engineering management and personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store in a closed container. Store in a dry place.

7.3 Incompatibilities/Specific end uses(s)

| | |
|----------------------------|---------------------------|
| Incompatibilities | No information available. |
| Specific end use(s) | No information available. |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No information available.

8.2 Engineering Controls/Exposure Controls

| | |
|--|--|
| Engineering controls | Ensure adequate ventilation at places where dust is formed. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Environmental exposure controls | No information available. |

8.3 Protective Measures

| | |
|--------------------------------------|--|
| Eye/face protection | Wear safety glasses with side shields (or goggles) or a face shield. |
| Hand protection | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. |
| Other Skin protection | Wear protective clothing appropriate to the risk of exposure. |
| Other protection | No information available. |
| Respiratory protection | Wear respiratory protective equipment certified by the Occupational Safety and Health Agency according to the physical and chemical properties of the gas / liquid exposed. In case of lack of oxygen (<19.5%), wear breathing mask or self-contained breathing apparatus. |
| General hygiene consideration | Wash hands, forearms and face before eating, drinking, smoking and using the restroom. Launder contaminated clothing before re-use. |
| Thermal hazards | No information available. |

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

| Property | Value |
|------------------------------|---------------------------|
| Appearance | Liquid. |
| Autoignition Temperature | No information available. |
| Boiling Point | 617°F/325°C. |
| Decomposition Temperature | No information available. |
| Evaporation Rate | No information available. |
| Flash Point | 327.2°F/164°C. |
| Melting/Freezing Point | 50°F/10°C. |
| Odor | No information available. |
| Odor Threshold (Detection) | No information available. |
| Relative Density (water = 1) | 0.8693. |
| Solubility | 0.000202 mg/L. |
| Vapor Density | No information available. |
| Vapor Pressure | No information available. |
| Viscosity | 19.6 cSt at 104°F/40°C. |
| pH Value | No information available. |

9.2 Other information

SECTION 10: Stability and Reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Avoid excessive heat, sparks or open flames.

10.5 Incompatible materials

Flammable substance, toxic gas.

10.6 Hazardous decomposition products

Under normal conditions, no hazardous decomposition products should be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Source

Skin contact No information available.

Eye contact No information available.

Inhalation No information available.

Ingestion No information available.

Symptoms related to characteristics No information available.

Acute effects No information available.

Chronic effects No information available.

Numerical measures of Toxicity No information available.

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| | |
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| Skin corrosion/irritation | Not an irritant. |
| Serious eye damage/eye irritation | Not an irritant. |
| Respiratory sensitization | Not expected. |
| Skin sensitization | Not expected. |
| Carcinogenicity | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA. |
| Germ cell mutagenicity | No information available. |
| Reproductive toxicity | Not expected. |
| Specific target organ toxicity - single exposure | Not expected. |
| Specific target organ toxicity - repeated exposure | Not expected. |
| Aspiration hazard | No information available. |

SECTION 12: Ecological information

12.1 Toxicity

Not classified as an environmental hazard.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional Information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Handling for disposal

No information available.

Methods of disposal

Dispose of contents/container to a licensed contractor or facility in accordance with local, state and federal regulations.

Contaminated packaging

Clean container thoroughly and dispose to licensed disposal contractor.

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SECTION 14: Transport Information

D.O.T/ADR/RID - Ground transportation

- 14.1 UN number** No information available.
- 14.2 UN proper shipping name** Not regulated for transportation by DOT, TDG, IMDG, and ICAO/IATA.
- 14.3 Transport hazard class(es)**
- 14.4 Packing group**

Air transport (ICAO/IATA)

- 14.1 UN number** No information available.
- 14.2 UN proper shipping name** Not regulated for transportation by DOT, TDG, IMDG, and ICAO/IATA.
- 14.3 Transport hazard class(es)**
- 14.4 Packing group**

Sea transport (IMDG)

- 14.1 UN number** No information available.
- 14.2 UN proper shipping name** Not regulated for transportation by DOT, TDG, IMDG, and ICAO/IATA.
- 14.3 Transport hazard class(es)**
- 14.4 Packing group**

14.5 Environmental hazards

No information available.

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol112 and the IBC Code

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| Country or region | Inventory List | Listed or Exempt (yes/no) |
|--------------------------|--|---------------------------|
| Canada | Canada Domestic Substance List (Canada DSL) | Yes |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| European Union | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| South Korea | Korea Existing Chemicals Inventory (KECI / KECL) | Yes |
| New Zealand | New Zealand Inventory of Chemicals (NZIoC) | Yes |
| Philippines | Philippines Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | Yes |
| United States of America | U.S. - Toxic Substances Control Act (TSCA) - Inventory list | Yes |
| Vietnam | The Vietnam National Chemicals Inventory (NCl) | Yes |

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15.2 Chemical Safety Assessment

California Prop. 65 Statement: This product does not require a warning under California Prop. 65.

SECTION 16: Other Information

Specific Hazard N/A

HMIS Ratings

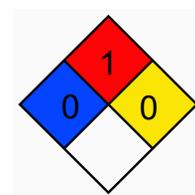
| | |
|----------------------------|---|
| HEALTH | 0 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | |

0 - Normal Material

1 - Above 200°F

0 - Stable, even under fire conditions and will not re-act with water, etc.

NFPA



The information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the result of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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