

Issue Date 23-Sep-2014

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Version 2

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product Name** Z-50 DEFOAMER**Other means of identification****Product Code** 282  
**Synonyms** None**Recommended use of the chemical and restrictions on use****Recommended Use** Alkaline and Acid CIP Solution Defoamer.  
**Uses advised against** No information available**Manufacturer Address**

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

**Emergency telephone number**

Chemtrec 1-800-424-9300

**2. HAZARDS IDENTIFICATION****Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |             |
|-----------------------------------|-------------|
| Skin corrosion/irritation         | Category 2  |
| Serious eye damage/eye irritation | Category 2B |

**Label elements****Emergency Overview****Warning****Hazard statements**Causes skin irritation  
Causes eye irritation**Appearance** aqueous solution**Physical state** liquid**Odor** None**Precautionary Statements - Prevention**Wash hands and exposed skin thoroughly after handling  
Wear protective gloves**Precautionary Statements - Response**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
Specific treatment (see Section 4 on this label)

IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation occurs: Get medical advice/attention  
 Take off contaminated clothing and wash before reuse

### Hazards not otherwise classified (HNOC)

#### Other Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Chemical Name | CAS No.     | Weight-% | Trade Secret |
|---------------|-------------|----------|--------------|
| TSRN6909      | Proprietary | 25-35    |              |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First aid measures

|   |   |
|---|---|
| <b>Eye contact</b>                        | Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.  |
| <b>Skin Contact</b>                       | Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.   |
| <b>Inhalation</b>                         | Remove victim to fresh air. If breathing difficulty occurs or persists, get medical attention.  |
| <b>Ingestion</b>                          | Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person. |
| <b>Self-protection of the first aider</b> | No information available.   |

#### Most important symptoms and effects, both acute and delayed

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Causes skin irritation Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Ingestion of large quantities may cause nausea, vomiting, diarrhea. Ingestion may be harmful. |
|-----------------|--|

#### Indication of any immediate medical attention and special treatment needed

|                           |                        |
|---------------------------|------------------------|
| <b>Note to physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water. Foam. Dry chemical. Carbon dioxide (CO2).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the chemical

No information available.

**Hazardous combustion products** No information available.

#### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Move containers from fire area if you can do so without risk.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. |
| <b>Environmental precautions</b> | See Section 12 for additional ecological information.   |
| <b>Methods for containment</b>   | Remove free liquid. Contain spill and keep from entering waterways or sewers.                             |
| <b>Methods for cleaning up</b>   | Soak up with inert absorbent material. After cleaning, flush away traces with water.                      |

**7. HANDLING AND STORAGE****Precautions for safe handling**

|                                |  |
|--------------------------------|--|
| <b>Advice on safe handling</b> | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not ingest. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. |
|--------------------------------|--|

**Conditions for safe storage, including any incompatibilities**

|                               |  |
|-------------------------------|--|
| <b>Storage Conditions</b>     | Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated place. |
| <b>Incompatible materials</b> | Acids. Bases. Halogens.  |

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines  
Appropriate engineering controls**

Eyewash stations.

**Individual protection measures, such as personal protective equipment**

|                                       |   |
|---------------------------------------|---|
| <b>Eye/face protection</b>            | Eye protection is recommended.  |
| <b>Skin and body protection</b>       | Not required for normal use. If contact is likely, wear protective gloves. If contact is likely, wear protective clothing appropriate to use conditions.  |
| <b>Respiratory protection</b>         | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>General Hygiene Considerations</b> | Handle in accordance with good industrial hygiene and safety practice.  |

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                       |        |
|-----------------------|--------|
| <b>Physical state</b> | liquid |
|-----------------------|--------|

|                   |                  |                       |                          |
|-------------------|------------------|-----------------------|--------------------------|
| <b>Appearance</b> | aqueous solution | <b>Odor</b>           | None                     |
| <b>Color</b>      | clear colorless  | <b>Odor threshold</b> | No information available |

| <u>Property</u>                      | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------------|--------------------------|-------------------------|
| <b>pH</b>                            | 7                        |                         |
| <b>Melting point/freezing point</b>  | No information available |                         |
| <b>Boiling point / boiling range</b> | No information available |                         |
| <b>Flash point</b>                   | No information available |                         |
| <b>Evaporation rate</b>              | No information available |                         |
| <b>Flammability (solid, gas)</b>     | No information available |                         |
| <b>Flammability Limit in Air</b>     |                          |                         |
| <b>Upper flammability limit:</b>     | No information available |                         |
| <b>Lower flammability limit:</b>     | No information available |                         |
| <b>Vapor pressure</b>                | No information available |                         |
| <b>Vapor density</b>                 | No information available |                         |
| <b>Specific Gravity</b>              | 1.016-1.036              |                         |
| <b>Water solubility</b>              | completely soluble       |                         |
| <b>Solubility in other solvents</b>  | No information available |                         |
| <b>Partition coefficient</b>         | No information available |                         |
| <b>Autoignition temperature</b>      | No information available |                         |
| <b>Decomposition temperature</b>     | No information available |                         |
| <b>Kinematic viscosity</b>           | No information available |                         |
| <b>Dynamic viscosity</b>             | No information available |                         |
| <b>Explosive properties</b>          | No information available |                         |
| <b>Oxidizing properties</b>          | No information available |                         |

**Other Information**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | No information available |
| <b>Density</b>          | No information available |
| <b>Bulk density</b>     | No information available |

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

No information available.

**Incompatible materials**

Strong oxidizing agents

**Hazardous Decomposition Products**No information available. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | No data available                          |
| <b>Inhalation</b>          | May cause irritation of respiratory tract. |

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|                     |                                    |
|---------------------|------------------------------------|
| <b>Eye contact</b>  | Moderately irritating to the eyes. |
| <b>Skin Contact</b> | Irritating to skin.                |
| <b>Ingestion</b>    | May be harmful if swallowed.       |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|  |                           |
|--|---------------------------|
| <b>Serious eye damage/eye irritation</b> | Irritating to eyes.       |
| <b>Sensitization</b>                     | No information available. |
| <b>Germ cell mutagenicity</b>            | No information available. |
| <b>Carcinogenicity</b>                   | No information available. |
| <b>Reproductive toxicity</b>             | No information available. |
| <b>STOT - single exposure</b>            | No information available. |
| <b>STOT - repeated exposure</b>          | No information available. |
| <b>Aspiration hazard</b>                 | No information available. |

**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity  
The following values are calculated based on chapter 3.1 of the GHS document .

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

32% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Rinse empty container and offer for recycling.

## 14. TRANSPORT INFORMATION

**DOT**

Not regulated

**15. REGULATORY INFORMATION****International Inventories**

|                      |                     |
|----------------------|---------------------|
| <b>TSCA</b>          | Complies            |
| <b>DSL/NDSL</b>      | Complies/Not listed |
| <b>EINECS/ELINCS</b> | Complies/Not listed |
| <b>ENCS</b>          | Complies            |
| <b>IECSC</b>         | Complies            |
| <b>KECL</b>          | Complies            |
| <b>PICCS</b>         | Complies            |
| <b>AICS</b>          | Complies            |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

|Skin corrosion/irritation

|Serious eye damage/eye irritation

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations****U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

**16. OTHER INFORMATION**

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 2 | Flammability 1 | Instability 0      | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 2 | Flammability 1 | Physical hazards 0 | Personal protection X              |

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Revision Note  
Review and update

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**