

SAFETY DATA SHEET

Issue Date: October 5, 2009

Revision Date: April 16, 2015

Version 1.

1. IDENTIFICATION

Product Identifier:

Product Name

DIRL-HIB III

Other Means of Identification:

SDS #

BW-010

Recommended Use of the Chemical and Restriction on Use:

Recommended Use Rust Inhibitor

Details of the Supplier of Safety Data Sheet:

Blue Wave Ultrasonics
960 South Rolff Street
Davenport, Iowa 52802
1-800-373-0144

Emergency Telephone Number

Emergency Telephone (24 Hr)

INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance: Pink Liquid

Physical State: Liquid

Odor: Surfactant

Classification:

Acute toxicity (ORAL)

Category 4

Serious eye damage/eye irritation

Category 2

Sub-Category B

Hazards Not Otherwise Classified (HNOC)

Not determined.

Signal Word:

Warning



Hazard Statements:

Harmful if swallowed.

Causes serious eye irritation.

Precautionary Statements - Prevention:

Wear protective gloves and eye protection.

Precautionary Statements -Response:

IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists, get medical attention.

IF ON SKIN (or hair): Rinse skin with water. If skin irritation or rash occurs, get immediate medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Rinse mouth. Get medical attention if you feel unwell.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements -Disposal

Dispose of contents/container at an approved disposal plant.

Unknown Acute Toxicity

Oral 2.8%, Dermal 6.4%, Inhalation 23.1%

| 3. COMPOSITION/INFORMATION ON INGREDIENTS | | |
|---|--|----------|
| Chemical Name | CAS No. | Weight % |
| Sodium Metasilicate | 6834-92-0 | <2 |
| If Chemical Name/CAS No is "proprietary" and/or Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. | | |
| 4. FIRST AID MEASURES | | |
| General Advice: Provide this SDS to medical personnel for treatment. | | |
| Eye Contact: | Flush with large amounts of water for 15 minutes. Lift the upper and lower eyelid to ensure complete flushing of the eye (s). Remove contact lens, if worn. If eye irritation persists: Get medical attention. | |
| Skin contact: | Flush thoroughly with water and cleanse with soap and water. Remove contaminated clothes and wash before reuse. If skin irritation persists, call a physician. | |
| Inhalation: | Remove exposed person to fresh air for 20 minutes. Consult a physician/poison center if individual declines or if symptoms persist. | |
| Ingestion: | Rinse mouth. Do not induce vomiting. Drink large amounts of water. Get medical attention if symptoms occur. | |
| Most important symptoms and effects: May cause skin and eye irritation. May cause nausea, vomiting, stomach ache, and diarrhea. | | |
| Note to physicians: Treatment is symptomatic and supportive. | | |
| 5. FIRE FIGHTING MEASURES | | |
| <u>Suitable Extinguishing Media</u> CO2, dry chemical, foam and water fog | | |
| <u>Unsuitable Extinguishing Media</u> Not determined. | | |
| <u>Specific Hazards Arising from the Chemical</u> Product is not flammable or combustible. | | |
| <u>Protective equipment and precautions for firefighters</u> As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. | | |
| 6. ACCIDENTAL RELEASE MEASURES | | |
| Personal Precautions: | Wear protective clothing as described in Section 8 of this safety data sheet. Ventilate affected area. | |
| Environmental Precautions: | See section 12 for additional Ecological Information. | |
| Methods of Containment: | Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material. | |
| Method for Clean-up: | Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS. | |

7. HANDLING AND STORAGE

| | |
|-------------------------|---|
| Handling: | Handle in accordance with good industrial hygiene and safety practices. Use personal protection recommended in Section 8. Keep out of reach of children. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin after handling. Do not breathe vapors or spray mist. |
| Storage: | Store locked up. |
| Incompatible Materials: | Strong acids. Oxidizers. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-----------------------------------|---|
| Exposure Guidelines: | Not determined. |
| Appropriate engineering controls: | Adequate ventilation, Safety showers, Eye wash stations. |
| Individual protection measures: | |
| Eye/Face Protection: | Use safety glasses or goggles. |
| Skin and Body Protection: | Chemical impervious gloves. Boots, aprons needed for protection against spill / splashes. |
| Respiratory Protection: | Ensure adequate ventilation, especially in confined areas. |
| General Hygiene: | Avoid contact with skin, eyes, and clothing. Wash hands after handling. Remove any contaminated clothing. If needed take first aid action shown in section 4 of this SDS. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------|-------------|-----------------|----------------|
| Physical State: | Liquid | Odor: | Surfactant |
| Appearance: | Pink liquid | Odor Threshold: | Not determined |
| Color: | Pink | | |

| Property | Values | Property | Values |
|------------------------------|----------------|------------------------------|----------------|
| pH | 11.5 | Specific Gravity | 1.1 |
| Melting point/Freezing point | Not Determined | Water solubility | 100% |
| Boiling point/Boiling Range | Not Determined | Solubility in other solvents | Not Determined |
| Flash Point | Will Not Burn | Partition Coefficient | Not Determined |
| Evaporation Rate | Not Determined | Auto-ignition Temperature | Not Applicable |
| Flammability (Solid, Gas) | Not Applicable | Decomposition Temperature | Not Determined |
| Upper Flammability Limits | Not Applicable | Kinematic Viscosity | Not Determined |
| Lower Flammability Limits | Not Applicable | Dynamic Viscosity | 6.0 cps |
| Vapor Pressure | Not Determined | Explosive Properties | Not Applicable |
| Vapor Density | Not Determined | Oxidizing Properties | Not Determined |

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.

Polymerization: Hazardous polymerization does not occur.

Conditions to Avoid: Keep out of reach of children.

Incompatible Chemicals: Strong acids. Oxidizers.

Hazardous Decomposition Products: Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|--------------|--------------------------------------|
| Eye Contact | Causes serious eye damage. |
| Skin Contact | May be harmful in contact with skin. |
| Inhalation | Not likely to be a problem. |
| Ingestion | May be harmful if swallowed. |

Component Information

| | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------------|------------------|----------------------|------------------------|
| Sodium Metasilicate 6834-92-0 | 1300 mg/kg (Rat) | >5000 mg/kg (Rabbit) | >2.06 g/m ³ |

Information on physical, chemical and toxicological effects

Symptoms: Please see section 4 of this SDS for symptoms.

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

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity

Oral 2.8%, Dermal 6.4%, Inhalation 23.1%

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to Microorganisms | Crustacea |
|----------------------------------|----------------------|---------------------------------------|----------------------------|------------------------------------|
| Sodium Metasilicate 6834-92-0 | | 210: 96 h Brachydanio rerio mg/L LC50 | | 1700: 48 h Daphnia magna mg/L EC50 |

Persistence /Degradability

Not determined.

Bioaccumulation

Not Determined.

Mobility

Not Determined.

Other Adverse Effects

Not Determined.

13. DISPOSAL CONSIDERATIONS

Water Treatment Methods

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

Contaminated Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORTATION INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated.

IATA Not regulated.

IMDG Not regulated.

15. REGULATORY INFORMATION

International Inventories

Not determined

US FEDERAL

SARA 313

Not determined

U.S. State Regulations

U.S.State Right-to Know Regulations

Not determined

16. OTHER INFORMATION

| | | | | |
|-------------|----------------|--------------|------------------|---------------------|
| <u>NFPA</u> | Health Hazards | Flammability | Instability | Special Hazards |
| | 1 | 0 | 0 | Not determined |
| <u>HMIS</u> | Health Hazards | Flammability | Physical Hazards | Personal Protection |
| | 1 | 0 | 0 | B |

Issue Date: October 05, 2009

Revision Date: April 16, 2015

Revision Note: New format

Disclaimer:

The information provided in this 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

End of Safety Data Sheet