

Safety Data Sheet

Issue Date: 06-Jun-2007

Revision Date: 29-Mar-2016

Version 2

1. IDENTIFICATION

Product Identifier

Product Name DBW 7815

Other means of identification

SDS # DAN-006

Recommended use of the chemical and restrictions on use

Recommended Use Treatment for boilers.

Details of the supplier of the safety data sheet

Supplier Address

DANCO
27496 Max Street
Edwardsburg, MI 49112

Emergency Telephone Number

Company Phone Number Phone: 269-663-5566

Fax: 269-663-5568

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Light Brown

Physical State Liquid

Odor Very slight sour odor

Classification

| | |
|---------------------------|-------------|
| Eye damage/eye irritation | Category 1 |
| Respiratory Sensitizer | Category 1B |
| Skin Sensitizer | Category 1 |
| Germ Cell Mutagen | Category 2 |
| Carcinogen | Category 1B |
| Reproductive Toxicity | Category 1B |

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

May be harmful in contact with skin

Signal Word

Danger

Hazard Statements

Causes serious eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause allergic skin reaction
Suspected of causing genetic defects
May cause cancer
May damage fertility



Precautionary Statements-Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Avoid breathing dust
 Wear respiratory protection
 Wear protective gloves, protective clothing, eye protection, and face protection. Contaminated work clothing should not be allowed out of the workplace.
Attention: Contact with acids, water or ice releases sulfur dioxide gas which may be harmful if inhaled

Precautionary Statements-Response

Immediately call a poison center or doctor/physician
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor
IF ON SKIN: Wash with plenty of water
 If skin irritation or rash occurs: Get medical advice or attention
 Take off contaminated clothing and wash it before reuse
 If exposed or concerned: Get medical advice or attention
IF experiencing respiratory symptoms; Call a POISON CENTER or doctor

Precautionary Statements - Storage

Keep product packaging/container closed when not in use. Keep in cool, dry, well-ventilated areas. Keep away from water, ice, acids, and oxidizing agents

Precautionary Measure: Do not eat, drink, or smoke when using this product.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with locals, state, and federal regulations

Notice: Empty container product residue and/or vapors. All label information also applies to this empty container

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|----------------|-----------|----------|
| Sodium Sulfite | 7757-83-7 | 1-10 |

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

First Aid Measures

| | |
|---------------------|--|
| Eye Contact | Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention. Do not use any eye ointment. |
| Skin Contact | Flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention if irritation persists. Wash clothing separately before reuse. |
| Inhalation | Move victim to fresh air. Give artificial respiration only if breathing has stopped. Give Cardiopulmonary Resuscitation (CPR) if there is no breathing and no pulse. Obtain medical attention immediately. |
| Ingestion | Do not induce vomiting. If victim is alert and not convulsing, rinse mouth and give 1/2 to one glass of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Immediately contact local poison control center. Vomiting may need to be induced but should be directed by a physician or a poison control center. Immediately transport victim to an emergency facility. |

Most important symptoms and effects

| | |
|-----------------|---|
| Symptoms | May cause irritation and/or burns to the eyes. Harmful if swallowed or inhaled. May cause severe and possibly fatal allergic reactions if inhaled or swallowed by some asthmatics and other 'sulfite-sensitive' individuals. May cause respiratory sensitization with asthma. May cause allergic skin reaction with rash and itching. May cause genetic defects, damage to fertility, or cancer. Reacts with acids to form toxic and irritating sulfur dioxide gas. |
|-----------------|---|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|---|
| Notes to Physician | Get immediate medical attention for eye contact. Treat symptomatically. |
|---------------------------|---|

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

| | |
|-------------------|---|
| Small Fire | For small fires use dry chemical, carbon dioxide or water spray. |
| Large Fire | For large fires use dry chemical, carbon dioxide, alcohol-resistant foam or flood fire area with water. |

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Releases toxic and irritating sulfur oxides at fire temperatures

Hazardous Combustion Products Thermal decomposition products are toxic and include oxides of Sulfur. Sodium sulfide may be formed after dried solution residues are heated. Sodium sulfide is an explosive hazard and strongly alkaline in contact with water.

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. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers and disperse vapors.

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

Personal Precautions Provide ventilation to clear sulfur dioxide fumes which may be generated by the sodium sulfite component. Wear appropriate personal protective equipment.

Environmental Precautions Prevent liquid from entering sewers or waterways.

Methods and material for containment and cleaning up

Methods for Containment Dike with inert material (sand, earth, etc). Stop or reduce leak if safe to do so.

Methods for Clean-Up Collect into containers for reclamation or disposal only if container is suitable to withstand the material. Consider in-situ neutralization and disposal. Dilute solutions of Acetic Acid.

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

Advice on Safe Handling Wear appropriate personal protective equipment. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep ignition sources away from product storage, handling and transportation equipment. Keep containers closed when not in use. Ensure all containers are labeled. Store above freezing point. Ideal storage temperatures are between 68 – 80°F (20 and 27°C). Store in corrosion-proof area away from incompatible substances. Store in tightly closed container, preferably the supplier container. Store in a cool, well-ventilated location away from heat, sparks and flames. Storage tanks should be constructed from polyethylene, polypropylene, fiberglass-reinforced plastic (FRP), cross-linked polyethylene (XLPE), or #316 stainless steel to avoid corrosion problems. Storage tanks should be protected from water ingress, and maintained structurally in a safe and reliable condition.

Incompatible Materials Do not expose to strong acids, as this will liberate sulfur dioxide gas. Strong oxidizers may cause strong exothermic reaction.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight fitting chemical goggles and face shield.

Skin and Body Protection Impervious gloves, coveralls, boots and/or other chemical resistant protective clothing.

| | |
|-------------------------------|---|
| Respiratory Protection | A NIOSH/MSHA approved air-purifying respirator equipped with acid gas/fume, dust, mist cartridges for concentrations up to 50 mg/m ³ or 20 ppm sulfur dioxide. A powered air-purifying respirator with acid gas cartridges for up to 50 ppm sulfur dioxide. A full-face piece, air-supplied respirator if concentrations are for up to and higher than 100 ppm sulfur dioxide. |
|-------------------------------|---|

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | |
|-------------------------------------|-----------------------|---|
| Physical State | Liquid | |
| Appearance | Light Brown | Odor |
| Color | Light Brown | Odor Threshold |
| | | Very slight sour odor Not determined |
| Property | Values | Remarks • Method |
| pH | 8.30 | |
| Melting Point/Freezing Point | 0 °C / 32 °F | |
| Boiling Point/Boiling Range | 100 °C / 212 °F | |
| Flash Point | Non-flammable | |
| Evaporation Rate | Not determined | |
| Property | Values | Remarks • Method |
| Flammability (Solid, Gas) | Liquid-Not applicable | |
| Upper Flammability Limits | Not applicable | |
| Lower Flammability Limit | Not applicable | |
| Vapor Pressure | 17.535 mm Hg | @ 20°C (68°F) |
| Vapor Density | Not determined | |
| Specific Gravity | 1.10 | |
| Water Solubility | Completely soluble | |
| Solubility in other solvents | Not determined | |
| Partition Coefficient | Not determined | |
| Auto-ignition Temperature | Not determined | |
| Decomposition Temperature | Not determined | |
| Kinematic Viscosity | Not determined | |
| Dynamic Viscosity | Not determined | |
| Explosive Properties | 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

Reacts with acids to form toxic and irritating sulfur dioxide gas.

Hazardous Polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to Avoid

High temperatures. Sparks. Open flames. Ignition sources. Incompatible Materials.

Incompatible Materials

Do not expose to strong acids, as this will liberate sulfur dioxide gas. Strong oxidizers may cause strong exothermic reaction.

Hazardous Decomposition Products

Sulfur dioxide and sodium sulfide residue. Sodium sulfide is flammable, a dangerous fire risk, a strong irritant to skin and tissue, and is incompatible with acids.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

| | |
|---------------------|--|
| Eye Contact | Dust or mist may irritate or burn the eyes. Solutions will cause irritation or burns to the eyes. |
| Skin Contact | Dust or mist may cause skin irritation from prolonged contact. Solutions will cause skin irritation. May cause allergic skin reaction (sensitization) with rash and itching. |
| Inhalation | Inhalation or dust or mist can irritate the respiratory tract. May cause respiratory sensitization. May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals. Possible signs and symptoms of allergic reactions include bronchoconstriction, sweating, flushing, hives, rapid heart rate, decreased blood pressure, and anaphylaxis. |
| Ingestion | Ingestion may irritate the gastrointestinal tract. Estimated to be moderately toxic. May cause severe allergic reactions in some asthmatics. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression, and even death. |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------------------|---------------------|-------------|--|
| Sodium Sulfite 7757-83-7 | = 820 mg/kg (Rat) | - | > 5.5 mg/L (Rat) 4 h > 22 mg/L (Rat) 1 h |

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 | Group 3 IARC components are "not classifiable as human carcinogens". |
|------------------------|--|

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|-----------------------------|-------|---------|-----|------|
| Sodium Sulfite 7757-83-7 | | Group 3 | | |

Legend

*IARC (International Agency for Research on Cancer)
Group 3 IARC components are "not classifiable as human carcinogens"*

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|-----------------------------|----------------------|---|----------------------------|---|
| Sodium Sulfite 7757-83-7 | | 220 - 460: 96 h Leuciscus idus mg/L LC50 static | | 330: 24 h Psammechinus miliaris mg/L LC50 |

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

| Chemical Name | Partition Coefficient |
|-----------------------------|-----------------------|
| Sodium Sulfite 7757-83-7 | -4 |

Other Adverse Effects

Not determined

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

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

14. TRANSPORT 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**

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|----------------|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Sodium Sulfite | Present | X | | Present | | Present | X | Present | X | X |

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

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).

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

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

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)

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

| <u>NFPA</u> | Health Hazards | Flammability | Instability | Special Hazards |
|-------------|-----------------------|---------------------|-------------------------|----------------------------|
| | 2 | 0 | 0 | Not determined |
| <u>HMIS</u> | Health Hazards | Flammability | Physical Hazards | Personal Protection |
| | 2 | 0 | 0 | B |

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Revision Note: Formula Change

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 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