1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Hydrosulfite F

Synonyms/Generic Names: Blankit; Burmol; Hydros; Hydrosulfite R Conc; V-Brite B; Vatrolite; Sodium Dithionite; Sodium Hyposulfite; Disodium dithionite; Disodium hydrosulfite

Product Number: 5061

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.
N4335 Temkin Rd.
Columbus, WI 53925

For More Information Call: 920-623-2140 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Unstable Reactive, Harmful by ingestion

Target Organs: None

Other hazards: Contact with acids liberates toxic gas.

Signal Word: Danger

Pictograms:

GHS Classification:

<table>
<thead>
<tr>
<th>Self-heating substances</th>
<th>Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute aquatic toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

GHS Label Elements, including precautionary statements:

Hazard Statements:

H251 Self-heating: may catch fire.
H302 Harmful if swallowed.
H411 Toxic to aquatic life with long lasting effects.
Precautionary Statements:

<table>
<thead>
<tr>
<th>Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P235+P410</td>
<td>Keep cool. Protect from sunlight.</td>
</tr>
<tr>
<td>P264</td>
<td>Wash hands thoroughly after handling.</td>
</tr>
<tr>
<td>P270</td>
<td>Do not eat, drink or smoke when using this product.</td>
</tr>
<tr>
<td>P273</td>
<td>Avoid release to the environment.</td>
</tr>
<tr>
<td>P280</td>
<td>Wear protective gloves/protective clothing/eye protection/face protection.</td>
</tr>
<tr>
<td>P301+P312</td>
<td>IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.</td>
</tr>
<tr>
<td>P330</td>
<td>Rinse mouth.</td>
</tr>
<tr>
<td>P391</td>
<td>Collect spillage.</td>
</tr>
<tr>
<td>P407</td>
<td>Maintain air gap between stacks/pallets.</td>
</tr>
<tr>
<td>P420</td>
<td>Store away from other materials.</td>
</tr>
<tr>
<td>P501</td>
<td>Dispose of contents/container in accordance with local regulations.</td>
</tr>
</tbody>
</table>

Potential Health Effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May be harmful if inhaled. Causes respiratory tract irritation.</td>
</tr>
<tr>
<td>Skin</td>
<td>May be harmful if absorbed through skin. Causes skin irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Toxic if swallowed.</td>
</tr>
</tbody>
</table>

NFPA Ratings | HMIS Ratings
---|---
Health | 1 | Health | 1
Flammability | 2 | Fire | 2
Reactivity | 2 | Reactivity | 2
Specific hazard | Not Available | Personal | E

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight %</th>
<th>CAS #</th>
<th>EINECS# / ELINCS#</th>
<th>Formula</th>
<th>Molecular Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydrosulfite</td>
<td>&gt;80</td>
<td>7775-14-6</td>
<td>231-890-0</td>
<td>Na₂S₂O₄</td>
<td>174.11 g/mol</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Rinse with plenty of water for at least 15 minutes and seek medical attention.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.</td>
</tr>
<tr>
<td>Skin</td>
<td>Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.</td>
</tr>
</tbody>
</table>

5. FIRE-FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable (and unsuitable) extinguishing media</td>
<td>Use dry powder to extinguish. Use appropriate media for adjacent fire.</td>
</tr>
<tr>
<td>Special protective equipment and precautions for firefighters</td>
<td>Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.</td>
</tr>
<tr>
<td>Specific hazards arising from the chemical</td>
<td>Emits toxic fumes (oxides of sodium and sulfur) under fire conditions. (See also Stability and Reactivity section).</td>
</tr>
</tbody>
</table>
6. ACCIDENTAL RELEASE MEASURES

<table>
<thead>
<tr>
<th>Personal precautions, protective equipment and emergency procedures</th>
<th>See section 8 for recommendations on the use of personal protective equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental precautions</td>
<td>Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.</td>
</tr>
<tr>
<td>Methods and materials for containment and cleaning up</td>
<td>Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.</td>
</tr>
</tbody>
</table>

7. HANDLING AND STORAGE

Precautions for safe handling
See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

Conditions for safe storage, including any incompatibilities
Store in cool, dry well ventilated area. Air-, heat-, and moisture-sensitive. Handle and store under inert gas. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

Personal Protection

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Wear chemical safety glasses or goggles.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.</td>
</tr>
<tr>
<td>Skin</td>
<td>Wear nitrile or rubber gloves, apron or lab coat.</td>
</tr>
<tr>
<td>Other</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Other Recommendations
Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance (physical state, color, etc.)</th>
<th>Grayish-white powdered solid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Slightly sulfurous.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Available</td>
</tr>
<tr>
<td>pH</td>
<td>7.0 – 9.0 at 50 g/l at 20°C (68°F)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>300 °C (572 °F)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limit</td>
<td>Not Explosive</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Available</td>
</tr>
<tr>
<td>Density</td>
<td>2.500 g/cm³ at 20°C (68°F)</td>
</tr>
<tr>
<td>Solubility (ies)</td>
<td>Not Available</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>log Pow: &lt; -4.7</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>The substance or mixture is classified as self heating with the category 1.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>20°C (68°F)</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Chemical Stability</th>
<th>May decompose on exposure to air and moisture. Stable under recommended storage conditions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Possibility of Hazardous Reactions</td>
<td>Will not occur.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Do not allow water to enter container because of violent reaction. Avoid moisture. Heat.</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>Strong oxidizing agents, acids, water.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Sulfur oxides, sodium oxides.</td>
</tr>
</tbody>
</table>

### 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

**Sodium Hydrosulfite**

<table>
<thead>
<tr>
<th>Skin</th>
<th>LD50 Dermal – rabbit - &gt;10,000 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Not Available</td>
</tr>
<tr>
<td>Respiratory</td>
<td>Not Available</td>
</tr>
<tr>
<td>Ingestion</td>
<td>LD50 Oral – rat - &gt;500 mg/kg</td>
</tr>
</tbody>
</table>

#### Carcinogenicity

<table>
<thead>
<tr>
<th>IARC</th>
<th>No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</td>
</tr>
<tr>
<td>NTP</td>
<td>No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</td>
</tr>
<tr>
<td>OSHA</td>
<td>No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</td>
</tr>
</tbody>
</table>

#### Signs & Symptoms of Exposure

<table>
<thead>
<tr>
<th>Skin</th>
<th>Irritation, redness, itchiness.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Irritation, redness, watering eyes, itchiness.</td>
</tr>
<tr>
<td>Respiratory</td>
<td>Irritation, coughing, wheezing.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Irritation, nausea, vomiting, diarrhea.</td>
</tr>
</tbody>
</table>

#### Chronic Toxicity

Not Available

#### Teratogenicity

Not Available

#### Mutagenicity

Not Available

#### Embryotoxicity

Not Available

#### Specific Target Organ Toxicity

Not Available

#### Reproductive Toxicity

Not Available

#### Respiratory/Skin Sensitization

Not Available
12. ECOLOGICAL INFORMATION

Ecotoxicity
Sodium Hydrosulfite

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>Aquatic Vertebrate LC50 - Leuciscus idus (Golden orfe) - 10 - 100 mg/l - 96 h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aquatic Invertebrate EC50 - Daphnia magna (Water flea) - 10 - 100 mg/l - 48 h</td>
</tr>
<tr>
<td>Terrestrial</td>
<td></td>
</tr>
</tbody>
</table>

| Persistence and Degradability   | Not Available                                                                |
| Bioaccumulative Potential       | Not Available                                                                |
| Mobility in Soil                | Not Available                                                                |
| PBT and vPvB Assessment         | Not Available                                                                |
| Other Adverse Effects           | Toxic to aquatic life.                                                       |

13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Waste Residues</th>
<th>Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container or residue.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Containers</td>
<td>Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.</td>
</tr>
</tbody>
</table>

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

<table>
<thead>
<tr>
<th>US DOT</th>
<th>UN1384, Sodium dithionite, 4.2, pg II</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>UN1384, SODIUM DITHIONITE, 4.2, pg</td>
</tr>
<tr>
<td>IMDG</td>
<td>UN1384, SODIUM DITHIONITE, 4.2, pg</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>No</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>UN1384, Sodium dithionite, 4.2, pg</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>TSCA Inventory Status</th>
<th>All ingredients are listed on the TSCA inventory.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSCL (EEC)</td>
<td>All ingredients are listed on the DSCL inventory.</td>
</tr>
<tr>
<td>California Proposition 65</td>
<td>Not Listed</td>
</tr>
<tr>
<td>SARA 302</td>
<td>Not Listed</td>
</tr>
<tr>
<td>SARA 304</td>
<td>Not Listed</td>
</tr>
<tr>
<td>SARA 311</td>
<td>Reactivity Hazard, Acute Health Hazard</td>
</tr>
<tr>
<td>SARA 312</td>
<td>Reactivity Hazard, Acute Health Hazard</td>
</tr>
<tr>
<td>SARA 313</td>
<td>Not Listed</td>
</tr>
<tr>
<td>WHMIS Canada</td>
<td>CLASS B-6: Reactive and very flammable material.</td>
</tr>
<tr>
<td></td>
<td>CLASS F: Dangerously reactive material.</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision 1</td>
<td>08-17-2012</td>
</tr>
<tr>
<td>Revision 2</td>
<td>01/26/2015</td>
</tr>
<tr>
<td>Revision 3</td>
<td>03/11/2015</td>
</tr>
</tbody>
</table>

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