MATERIAL SAFETY DATA SHEET

Section 1 - PRODUCT IDENTIFICATION
Manufacturer's Name 
DEARBORN DIVISION, W. R. Grace & Company
Address 
300 Genesee St., Lake Zurich, IL 60047
Synonyms 
Cooling water treatment
Trade Name or Code Ident 
DAS 8-239
Emergency Phone No 
312/438-8241

Section 2 - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>CAS NO.</th>
<th>%</th>
<th>EXPOSURE CRITERIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite</td>
<td>7632-00-0</td>
<td>&lt; 15</td>
<td>--</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>&lt; 4</td>
<td>Ceiling limit - 2 mg/m³</td>
</tr>
</tbody>
</table>

NFFA Code: 1-0-0

Section 3 - PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>&gt; 212°F</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NA</td>
</tr>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>1.24</td>
</tr>
<tr>
<td>Density (Air=1)</td>
<td>NK</td>
</tr>
<tr>
<td>% Volatiles by Volume</td>
<td>NK</td>
</tr>
<tr>
<td>Appearance &amp; Odor</td>
<td>Red liquid; no distinct odor</td>
</tr>
<tr>
<td>pH</td>
<td>11.85</td>
</tr>
</tbody>
</table>

Section 4 - FIRE & EXPLOSION HAZARD DATA

Flash Point (and Method Used) | NA, water based product |

<table>
<thead>
<tr>
<th>Flammable Limits in Air, % by Volume</th>
<th>Lower</th>
<th>Upper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Ignition Temperature</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

EXTINGUISHING MEDIA

<table>
<thead>
<tr>
<th>Media</th>
<th>Water Fog</th>
<th>Foam</th>
<th>CO₂</th>
<th>Dry Chemical</th>
<th>Other</th>
</tr>
</thead>
</table>

SPECIAL FIRE FIGHTING PROCEDURES

None special - keep drums cool with water spray so they don't rupture; alkaline product.

UNUSUAL FIRE AND EXPLOSION HAZARD

None

Section 5 - REACTIVITY DATA

Stability (Normal Conditions) | CONDITIONS TO AVOID |

<table>
<thead>
<tr>
<th>Stable</th>
<th>Unstable</th>
</tr>
</thead>
</table>

MISABILITY (Materials to Avoid)

Avoid direct contact with strong acids and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

CO₂, oxides of nitrogen

HAZARDOUS POLYMERIZATION

May Occur | Will Not Occur | CONDITIONS TO AVOID |

| NA |

(over)
MATERIAL SAFETY DATA SHEET (Continued)

Section 6 - HEALTH HAZARD INFORMATION

EXPOSURE LIMIT
Not established

EFFECTS OF OVEREXPOSURE

INHALATION
Not expected

INGESTION
Harmful if swallowed. In case of ingestion, encourage vomiting using a mild emetic. After vomiting occurs, provide as much milk to drink as can be tolerated.

SKIN OR EYE CONTACT
Alkaline liquid. Avoid eye contact & excessive contact with skin.
Eye contact: flood with water for 15 minutes; contact physician.
Skin contact: wash off skin with water; change contaminated clothing.

EMERGENCY AND FIRST AID PROCEDURES
Alkaline product - see above

Section 7 - SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS
Mechanical exhaust should be adequate should be adequate.

RESPIRATORY PROTECTION (Specify Type)
None required

EYE PROTECTION
Goggles or face shield

GLOVES (Specify Type)
Rubber or plastic

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)
None special

Section 8 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
Wear protective clothing for alkaline product. Dike spill & soak up on an inert absorbent or flush into approved disposal system.

WASTE DISPOSAL METHOD
Dispose using chemical scavenger service in authorized landfill.
For additional disposal instructions, contact your state water pollution control agency. This product is NOT an EPA Hazardous Waste.

Section 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Protect drums from freezing and from physical damage. Freezes at -2°F.

OTHER PRECAUTIONS
For industrial use only.

Shipping Name: Compound Industrial Process Water Treating Liquid

Prepared by S. Morss

Date 1/88

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