



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - MANUFACTURER OR SUPPLIER DATA

MSDS NUMBER

101081

|  |  |  |                                    |
|--|--|--|------------------------------------|
| MANUFACTURER'S NAME & MAILING ADDRESS<br>U S Chemical Corporation<br>316 Hart Street<br>Watertown, Wisconsin 53094 USA |  | PREPARED BY<br>D. E. Kenas   | SIGNATURE<br><i>David E. Kenas</i> |
| EMERGENCY TELEPHONE NO. (24 HOUR SERVICE)<br>Medical Emergency ONLY: 1-800-851-7145 Ext. 075                           |  | TITLE<br>Quality Assurance Manager   | DATE<br>12-20-99                   |
|  |  | PRODUCT INFORMATION TELEPHONE NO. (8 AM TO 5 PM CST, MON - FRI)<br>Product Information: 1-800-558-9566 |                                    |

## SECTION 2 - IDENTITY OF MATERIAL

|  |  |                              |  |
|--|--|------------------------------|--|
| PRODUCT NAME<br>LIQUID SOURING AGENT AND SOFTENER              |  |                              |  |
| PRODUCT DESCRIPTION<br>Combination Softener and Sourcing Agent |  | FORMULA<br>Proprietary Blend | CHEMICAL FAMILY<br>N.A.                |
| REGULATED IDENTIFICATION                                       | DOT PROPER SHIPPING NAME<br>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS PHOSPHORIC ACID) |                              |  |
|  | SHIPPING ID NUMBER<br>UN3264   | PACKING GROUP<br>III         | HAZARD CLASS<br>8 (CORROSIVE MATERIAL) |

## SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

|                                 |  |                                    |                                 |
|---------------------------------|--|------------------------------------|---------------------------------|
| BOILING POINT<br>N.A.           | SPECIFIC GRAVITY (H <sub>2</sub> O = 1)<br>1.040 | PHYSICAL FORM<br>Liquid - Emulsion | COLOR<br>Pink                   |
| VAPOR PRESSURE (mm Hg)<br>N.A.  | MELTING POINT<br>N.A.                            | SOLUBILITY IN WATER<br>Moderate    | SCENT<br>Fresh Floral           |
| VAPOR DENSITY (AIR = 1)<br>N.A. | EVAPORATION RATE (BUTYL ACETATE = 1)<br>N.A.     | pH 2500 ppm SOLUTION<br>N.A.       | pH CONCENTRATE<br>Less than 2.0 |
| OTHER<br>Opaque Pink Emulsion.  |  |                                    |                                 |

## SECTION 4 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| HAZARDOUS COMPONENTS<br>(CHEMICAL NAME: COMMON NAME) | OSHA<br>PEL | ACGIH<br>TLV | OTHER LIMITS<br>RECOMMENDED | PERCENT<br>WT./WT |
|--|-------------|--------------|-----------------------------|-------------------|
| Orthophosphoric Acid: Phosphoric Acid                | 1 mg/m3     | 1 mg/m3      | 3 mg/m3 STEL                | 9.0               |
| CAS Registry Number 7664-38-2                        | TWA         | TWA          | (ACGIH/OSHA)                |                   |

This product contains no other ingredient considered hazardous according to the criteria of 29 CFR 1910.1200, OSHA. However, this product contains chemicals which may be subject to reporting requirements according to the criteria of SARA Title III, 40 CFR, Part 370, Section 311 and Section 312. This product also contains chemicals which may be subject to reporting requirements according to the criteria of SARA Title III, 40 CFR, Part 372, Section 313.

STATE RIGHT TO KNOW INFORMATION  
THIS PRODUCT CONTAINS: WATER/7732-18-5, PHOSPHORIC ACID/7664-38-2,  
DITALLOWAMIDOETHYL HYDROXYETHYLAMONIUM METHOSULFATE/68410-69-5, ISOPROPYL ALCOHOL/67-63-0

NFPA RATING: Health-3/Flammability-0/Reactivity-0      See Section 5 for Protective Equipment.  
HMIS RATING: Health-3/Flammability-0/Reactivity-0      See Section 5 for Protective Equipment.

CARCINOGENICITY:  
This product does not contain any known carcinogens or anticipated carcinogens according to the criteria of the NTP Annual Report on Carcinogens, IARC Monographs, and OSHA 29 CFR 1910, Subpart Z.

(CONTINUED IN SECTIONS 5 TO 8)

## SECTION 5 - SAFE USAGE DATA

|                                   |                    |   |                               |
|-----------------------------------|--------------------|---|-------------------------------|
| <b>PROTECTIVE EQUIPMENT TYPES</b> | EYES               | Splash-proof safety glasses, safety goggles, and an eye-wash station.   |                               |
|                                   | RESPIRATORY        | None required with normal use.  | GLOVES<br>Rubber or Neoprene. |
|                                   | OTHER              | Wear full-cover protective clothing to prevent skin contact.  |                               |
| <b>VENTILATION</b>                | GENERAL MECHANICAL | Satisfactory. Maintain adequate ventilation. Keep levels below recommended TLV.   |                               |
|                                   | LOCAL EXHAUST      | Not ordinarily needed. Avoid inhalation of mists containing this product.   |                               |
| <b>PRECAUTIONS</b>                | HANDLING & STORAGE | Follow all label directions. Instruct personnel about proper use, hazards, precautions, and first-aid measures. Avoid inhalation, ingestion and contact with skin and eyes.                     |                               |
|                                   |                    | Rotate stock regularly. Handle carefully to avoid damaging container. Keep container closed when not in use. Recommended storage temp below 100°F. Do not freeze. Keep out of children's reach. |                               |

## SECTION 6 - HEALTH HAZARD DATA

|                            |                              |  |  |
|----------------------------|------------------------------|--|--|
| <b>EFFECTS OF EXPOSURE</b> | INHALATION                   | Corrosive. Inhalation of mist may cause irritation to nose, throat and mucous membranes, pulmonary irritation, pulmonary edema, tissue damage and chemical burns.                    |  |
|                            | INGESTION                    | Corrosive. Harmful or fatal if swallowed. May cause nausea, vomiting, and severe tissue damage to digestive tract. Corrosive to mouth, throat, stomach and to other tissues.         |  |
|                            | SKIN & EYES                  | SKIN: Corrosive. Contact may cause severe irritation, dermatitis, and chemical burns.  |  |
|                            |                              | EYES: Corrosive. Causes eye burns. May cause temporary or permanent vision loss and blindness.   |  |
|                            | ACUTE & CHRONIC              | ACUTE: Corrosive to all body tissues. Harmful skin contact may not cause immediate pain. Permanent eye damage may result without immediate first aid treatment. CHRONIC: None Known. |  |
| <b>ROUTES OF ENTRY</b>     | INGESTION-X SKIN ABSORPTION- | TARGET ORGANS<br>Eyes, Skin, Respiratory System.   |  |
|                            | SKIN-X EYES-X INHALATION-X   |  |  |

## SECTION 7 - PHYSICAL HAZARD DATA

|                                 |                          |   |  |
|---------------------------------|--------------------------|---|--|
| <b>FLAMMABILITY</b>             | LEL = N.A.<br>UEL = N.A. | FLASH POINT = N.A.  | METHOD USED = N.A.   |
| <b>STABILITY</b>                | STABLE                   | <b>X</b>  | CONDITIONS TO AVOID Avoid mixing with any other cleaning product. Mix only with water. Do not store at high temperatures. Recommended storage temperature below 100°F. |
|                                 | UNSTABLE                 |   | HAZARDOUS DECOMPOSITION PRODUCTS May react with certain metals to produce flammable hydrogen gas. Mixing with strong alkali can generate steam.                        |
| <b>HAZARDOUS POLYMERIZATION</b> | MAY OCCUR                | <b>X</b>  | CONDITIONS TO AVOID  |
|                                 | WILL NOT OCCUR           |   | N.A.   |
| <b>INCOMPATIBILITY</b>          | MATERIALS TO AVOID       | Alkaline materials, chlorinated compounds, and metals such as aluminum, zinc, tin, etc., and cyanides, sulfides, and sulfites. Avoid sodium hypochlorite or bleach. |  |

## SECTION 8 - EMERGENCY RESPONSE DATA

|                           |   |  |
|---------------------------|---|--|
| <b>FIRE</b>               | EXTINGUISHING MEDIA   | For fires in area, use appropriate media. For example: Water spray, dry chemical, carbon dioxide, or alcohol foam.   |
|                           | SPECIAL PROCEDURES  | Evacuate area of unprotected personnel. Wear protective clothing, goggles, and face shield. Cool fire-exposed containers with water spray.   |
|                           | UNUSUAL HAZARDS   | Product may react with some metals such as aluminum, zinc, tin, etc., to release flammable hydrogen gas.   |
| <b>FIRST AID MEASURES</b> | INGESTION: Do not induce vomiting. If patient is conscious and can swallow, administer milk or water. SKIN: Remove contaminated clothes, flood with water for 15 minutes. EYES: Flood with lukewarm (not hot) water poured from a large glass 2 or 3 inches from eyes. Remove contacts. Have patient blink as much as possible while flooding the eyes. Continue for 15 minutes. INHALATION: Move victim to fresh air. Give artificial respiration if patient is not breathing. ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-800-851-7145 Ext 075 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS. |  |
|                           | STEPS TO BE TAKEN   | Wear proper protective equipment including rubber boots. Stop leak if you can do so without risk. Dike or dam large spills. Ventilate area if needed. Soak up with sand or other non-combustible inert absorbent materials. Flush area with water and follow with normal clean-up procedures. Keep combustibles away! Be careful as spills are slippery. |
| <b>SPILLS</b>             | WASTE DISPOSAL METHOD   | Comply with all federal, state, and local regulations. Consult state and local authorities for restrictions on disposal of chemical waste. If approved, may be diluted and drained to a municipal sewer or waste treatment plant. Rinse empty container thoroughly with water before discarding. Please recycle empty container whenever possible.       |

THE DATA IN THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR PROCESS. THE DATA CONTAINED IS BELIEVED TO BE ACCURATE. HOWEVER, SINCE USE CONDITIONS VARY AND ARE OUTSIDE OUR CONTROL, THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, AND ASSUMES NO LIABILITY FOR FAILURE TO FOLLOW PRODUCT USE DIRECTIONS AND SAFETY PRECAUTIONS.