

# SAFETY DATA SHEET

## CHEMIX 577-S COMPOUND

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Chemix 577-S Compound

**Product type:** Corrosion Inhibitor

**Restriction of Use:** None identified

**Region:** United States

**Company address:**

Chemix Corporation  
330 West 194<sup>th</sup> Street  
Glenwood, IL. 60425

**Contact information:**

Chemix Telephone: 708-754-2150  
MEDICAL EMERGENCY Phone: 708-754-2150  
CHEMICAL EMERGENCY INFOTRAC 1-800-535-5053

### 2. HAZARDS IDENTIFICATION

#### HAZARD STATEMENTS

**SIGNAL WORD: WARNING** CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.

| HAZARD CLASSIFICATION | HAZARD CATEGORY |
|-----------------------|-----------------|
| SKIN IRRITATION       | 2               |
| EYE IRRITATION        | 2A              |
| SKIN SENSITIZATION    | 1               |

#### PICTOGRAM(S)



#### Precautionary Statements

**Prevention:** Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye and face protection. Wear protective gloves.

**Response:** IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.

**Storage:** Not prescribed

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s) | CAS Number  | Percentage* |
|------------------------|-------------|-------------|
| Potassium salts        | Proprietary | 10 - 30     |
| Amine borate           | 68954-07-4  | 5 - 10      |
| Potassium hydroxide    | 1310-58-3   | 1 - 2       |
|                        |             |             |

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

#### 4. FIRST AID MEASURES

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.   |
| <b>Skin contact:</b> | For skin contact flush with large amounts of water.   |
| <b>Eye contact:</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. If symptoms develop and persist, get medical attention.  |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions. |
| <b>Symptoms:</b>     | See Section 11.   |

#### 5. FIRE FIGHTING MEASURES

|   |   |
|---|---|
| <b>Extinguishing media:</b>               | Use media appropriate for surrounding material.                         |
| <b>Special firefighting procedures:</b>   | Wear full protective clothing. Wear self-contained breathing apparatus. |
| <b>Unusual fire or explosion hazards:</b> | This product is an aqueous mixture which will not burn.                 |
| <b>Hazardous combustion products:</b>     | Irritating and toxic gases or fumes may be released during a fire.      |

#### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Prevent further leakage or spillage if safe to do so. Contain spill. Ventilate area. Do not allow product to enter sewer or waterways. Isolate area. Keep unnecessary personnel away.   |
| <b>Clean-up methods:</b>          | Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Flush area with water to remove trace residue. Dispose of according to Federal, State and local governmental regulations. |

#### 7. HANDLING AND STORAGE

|                  |  |
|------------------|--|
| <b>Handling:</b> | Avoid contact with eyes, skin and clothing. Provide adequate ventilation. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. |
| <b>Storage:</b>  | For safe storage, store between 40 °F (4.4 °C) and 100 °F (37.8 °C) Keep the container tightly closed and in a cool, well-ventilated place.                |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

| Hazardous Component(s) | ACGIH TLV       | OSHA PEL | AIHA WEEL | OTHER |
|------------------------|-----------------|----------|-----------|-------|
| Potassium salts        | None            | None     | None      | None  |
| Amine borate           | None            | None     | None      | None  |
| Potassium hydroxide    | 2 mg/m3 Ceiling | None     | None      | None  |
|                        |                 |          |           |       |

|                                |   |
|--------------------------------|---|
| <b>Engineering controls:</b>   | Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.   |
| <b>Respiratory protection:</b> | If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided. |
| <b>Eye/face protection:</b>    | Wear chemical goggles; face shield (if splashing is possible).  |
| <b>Skin protection:</b>        | Chemical resistant, impermeable gloves. Use of impervious apron and boots are recommended.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                               |
|---|-------------------------------|
| <b>Physical state:</b>                          | Liquid                        |
| <b>Color:</b>                                   | Amber                         |
| <b>Odor:</b>                                    | Amine                         |
| <b>Odor threshold:</b>                          | Not available.                |
| <b>pH:</b>                                      | 9.8                           |
| <b>Vapor pressure:</b>                          | Values referring to water     |
| <b>Boiling point/range:</b>                     | 212 °F (100°C)                |
| <b>Melting point/ range:</b>                    | Not determined                |
| <b>Specific gravity:</b>                        | 1.00 – 1.20                   |
| <b>Vapor density:</b>                           | 1                             |
| <b>Flash point:</b>                             | Not applicable                |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.                |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.                |
| <b>Autoignition temperature:</b>                | Not applicable                |
| <b>Evaporation rate:</b>                        | Not available.                |
| <b>Solubility in water:</b>                     | Complete                      |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined                |
| <b>VOC content:</b>                             | 91 g/l (per SCAQMD Rule 1144) |
| <b>Viscosity:</b>                               | Not available.                |
| <b>Decomposition temperature:</b>               | Not available.                |

## 10. STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Stability:</b>                        | Stable at normal conditions.  |
| <b>Hazardous reactions:</b>              | Will not occur.   |
| <b>Hazardous decomposition products:</b> | Oxides of phosphorus.   |
| <b>Incompatible materials:</b>           | This product may react with strong acids or oxidizing agents.   |
| <b>Reactivity:</b>                       | Not available.  |
| <b>Conditions to avoid:</b>              | Do not mix this product with nitrites or other nitrosating agents because a carcinogenic nitrosamine may be formed. |

## 11. TOXICOLOGICAL INFORMATION

**Relevant routes of exposure:** Skin, Inhalation, Eyes

### Potential Health Effects/Symptoms

**Inhalation:** This product is irritating to the respiratory system. Repeated inhalation of high vapor/mist concentrations may cause pulmonary, liver and kidney injury.  
**Skin contact:** This product is irritating to the skin. May cause allergic skin reaction in susceptible individuals.  
**Eye contact:** This product may cause irritation to the eyes.  
**Ingestion:** Ingestion of this product may cause nausea, vomiting and diarrhea.

| Hazardous Component(s) | LD50s and LC50s  | Immediate and Delayed Health Effects  |
|------------------------|--|---|
| Potassium salts        | None   | Gastrointestinal, Nervous System, Cardiac, Irritant, Vascular   |
| Amine borate           | None   | Allergen, Cardiac, Central nervous system, Developmental, Gastrointestinal, Irritant, Kidney, Metabolic, Reproductive |
| Potassium hydroxide    | Oral LD50 (RAT) = 273 mg/kg<br>Oral LD50 (RAT) = 1.23 g/kg | Corrosive, Irritant   |
|                        |  |   |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------|-----------------|--|
| Potassium salts        | No             | No              | No                                       |
| Amine borate           | No             | No              | No                                       |
| Potassium hydroxide    | No             | No              | No                                       |
|                        |                |                 | No                                       |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** No data available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal. This chemical contains phosphates.

**Hazardous waste number:** Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Not DOT Regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**International Air Transportation (ICAO/IATA)**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**15. REGULATORY INFORMATION****United States Regulatory Information**

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.  
**TSCA 12 (b) Export Notification:** None above reporting de minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** None above reporting de minimis  
**California Proposition 65:** No California Proposition 65 listed chemicals are known to be present.

**Canada Regulatory Information**

**CEPA DSL/NDL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

**16. OTHER INFORMATION**

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