Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
E-Tec 512

Product Use
Rust Preventive.

Details of the supplier of the safety data sheet
Electrochemical Products Inc.
17000 West Lincoln Ave
New Berlin, WI 53151
Phone: 262-786-9330
Emergency Phone #: Chemtree #800-424-9300 (CCN7498)
E-mail: us-sales@epi.com
www.epi.com
Fax: 262-786-9403

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
None needed according to classification criteria

GHS Label Elements
Symbol(s)
None needed according to classification criteria

Signal Word
None needed according to classification criteria

Hazard Statement(s)
None needed according to classification criteria

Precautionary Statement(s)
Prevention
None needed according to classification criteria

Response
None needed according to classification criteria

Storage
None needed according to classification criteria

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations
Other Hazards
Eye contact may cause irritation. Skin irritation will be slight with prolonged or repeated contact. Inhalation: Nausea, dizziness, irritation of nose and throat. Ingestion: irritation, vomiting, diarrhea, nausea. If ingestion and vomiting occur, monitor patient for 48 hours for breathing difficulties.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>88-90</td>
</tr>
<tr>
<td>Not Available</td>
<td>A mix of oxygenated hydrocarbon, aliphatic amine and sodium petroleum sulfonate</td>
<td>9-11</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

**Inhalation**
No special measures are necessary.

**Skin**
Wash skin with soap and water.

**Eyes**
Immediately flush eyes with plenty of water for at least 15 minutes.

**Ingestion**
Induction of vomiting not required. Small amounts which accidentally enter the mouth should be rinsed out until taste of it is gone.

**Most Important Symptoms/Effects**

**Acute**
No information available.

**Note to Physicians**
None identified.

Section 5 - FIRE FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media**
Water fog, chemical foam, dry chemical powder, carbon dioxide.
Special Hazards Arising from the Chemical
None identified.

Hazardous Combustion Products
Oxides of carbon and undefined organics.

Fire Fighting Measures
Fire-fighters should wear self-contained, NIOSH-approved breathing apparatus and full protective clothing.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Isolate area. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.

Methods and Materials for Containment and Cleaning Up
Contain the spill. Absorb with inert material. Do not flush to drain/store sewer. Use inert material. Incinerate under controlled conditions. Comply with all laws and regulations.

Environmental Precautions
Do not allow to enter sewers or waterways. Comply with regulations for spill reporting.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Wash thoroughly after handling. Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

Conditions for Safe Storage, Including any Incompatibilities
None needed according to classification criteria

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits
ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

Biological limit value
There are no biological limit values for any of this product's components.

Engineering Controls
Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fumes, mist and vapor away from workers to prevent routine inhalation.
Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Safety glasses or chemical goggles. It is generally recognized that contact lenses should not be worn when working with chemicals because they may contribute to the severity of an eye injury.

Skin Protection
Avoid skin contact. Wear rubber gloves, long sleeve shirt, trousers, safety shoes and rubber apron.

Respiratory Protection
Use NIOSH approved respirator appropriate for the vapor or mist at the point of use. Not normally needed unless product is heated or misted.

Glove Recommendations
Use chemical resistant impervious gloves.

Protective Materials
Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to tan emulsion.</td>
<td></td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
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<td></td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Liquid</td>
<td>215 °F</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point Range</td>
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<tr>
<td>Autoionization</td>
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<tr>
<td>Lower Explosive Limit</td>
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<td></td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>&lt;1</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity (water=1)</td>
<td>0.98 - 1.01</td>
<td></td>
</tr>
</tbody>
</table>
Water Solubility | Emulsifiable | Partition coefficient: n-octanol/water | Not available |
---|---|---|---|
Viscosity | Not available | Solubility (Other) | Not available |
Density | Not available | |

**Section 10 - STABILITY AND REACTIVITY**

**Reactivity**
None identified.

**Chemical Stability**
Stable under normal conditions.

**Possibility of Hazardous Reactions**
Hazardous polymerization will not occur.

**Conditions to Avoid**
Avoid contact with extreme heat.

**Incompatible Materials**
This product may react with oxidizing agents.

**Hazardous decomposition products**
Oxides of carbon and undefined organics.

**Thermal decomposition products**
Oxides of carbon and undefined organics.

**Section 11 - TOXICOLOGICAL INFORMATION**

**Acute and Chronic Toxicity**

**Component Analysis - LD50/LC50**
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Water (7732-18-5)
Oral LD50 Rat >90 mL/kg

**Immediate Effects**
No information on significant adverse effects.

**Delayed Effects**
No information on significant adverse effects.

**Irritation/Corrosivity Data**
No data available.

**Respiratory Sensitization**
No data available.

**Dermal Sensitization**
No data available.

**Component Carcinogenicity**
None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

**Germ Cell Mutagenicity**
No data available.

**Tumorigenic Data**
No data available

**Reproductive Toxicity**
No data available.

**Specific Target Organ Toxicity - Single Exposure**
No data available.

**Specific Target Organ Toxicity - Repeated Exposure**
No data available.

**Aspiration hazard**
No data available.

**Medical Conditions Aggravated by Exposure**
No data available.

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**Section 12 - ECOLOGICAL INFORMATION**

**Component Analysis - Aquatic Toxicity**
No LOLI ecotoxicity data are available for this product's components

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**Section 13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods**
Waste must be handled in accordance with all federal, state, provincial, and local regulations. Transport waste material to an authorized waste location, or incinerate under controlled conditions.
US DOT Information:
No Classification assigned.

TDG Information:
No Classification assigned.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

U.S. State Regulations
None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

Not listed under California Proposition 65

Canada Regulations
This material is not a controlled product under Canadian WHMIS regulations.

Component Analysis - Inventory
Water (7732-18-5)

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Section 16 - OTHER INFORMATION

HMIS Rating
Health: 1 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings
Health: 1 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products
Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.