Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
E-Tec 510

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 #: NCEC (#EPI-29003) +1 202 464 2554, +44 1865 407333
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
Exposure to this product may cause irritation to the eyes, skin and respiratory system. This product may be harmful if it is swallowed.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret</td>
<td>Naphthenic Oil</td>
<td>80-85</td>
</tr>
<tr>
<td>64742-54-7</td>
<td>Distillates, petroleum, hydrotreated heavy paraffinic</td>
<td>0.3-0.5</td>
</tr>
<tr>
<td>68647-71-2</td>
<td>Tall oil, potassium salt</td>
<td>5-7</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

Inhalation
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, get medical attention.

Skin
Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.

Eyes
Flush immediately with water for at least 15 minutes. Do not rub eyes. If irritation persists, get medical attention.

Ingestion
Induction of vomiting not required. Small amounts which accidentally enter the mouth should be rinsed out until taste of it is gone. Call a physician if symptoms develop or persist.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media
Water fog, chemical foam, dry chemical powder, carbon dioxide.

Hazardous Combustion Products
Carbon dioxide, carbon monoxide, smoke, fumes, and/or unburned hydrocarbons.
**Fire Fighting Measures**
Fire-fighters should wear self-contained, NIOSH-approved breathing apparatus and full protective clothing.

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**Section 6 - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**
Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this SDS. Isolate area. Keep unnecessary personnel away.

**Environmental Precautions**
Absorb spill with inert material. Shovel material into appropriate container for disposal. Do not flush to sewer.

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**Section 7 - HANDLING AND STORAGE**

**Precautions for Safe Handling**
Wash thoroughly after handling. Wash clothing before reuse.

**Conditions for Safe Storage, Including any Incompatibilities**
None needed according to classification criteria.
Keep in a closed container away from incompatible materials. NFPA Class III, B storage.

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**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

**EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures**
There are no biological limit values for any of this product's components.

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**
There are no biological limit values for any of this product's components.

**Engineering Controls**
If oil mists are generated, observe the OSHA exposure limit of 5 mg/m³.
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. Follow good industrial hygiene practices when working with product. Workplace eyewash stations and safety showers are recommended.

**Skin Protection**
Avoid skin contact. Wear rubber gloves, long sleeve shirt, trousers, safety shoes and rubber apron. Provide eyewash stations and quick-drench shower facilities.

**Respiratory Protection**
Wear a NIOSH approved respirator appropriate for the vapor or mist at the point of use.

**Glove Recommendations**
solvent-resistant. impervious gloves.

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### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Brown liquid</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>Wide range</td>
</tr>
<tr>
<td><strong>Boiling Point Range</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>1000 x slower (compared to ethyl ether)</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Autoignition Temperature</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>320 °F [closed cup] (160 °C)</td>
</tr>
<tr>
<td><strong>Lower Explosive Limit</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Upper Explosive Limit</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Vapor Density (air=1)</strong></td>
<td>Nil (@ 20C)</td>
</tr>
<tr>
<td><strong>Specific Gravity (water=1)</strong></td>
<td>0.905 - 0.935</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>Nil, but emulsifiable</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Solubility (Other)</strong></td>
<td>Not available</td>
</tr>
</tbody>
</table>
Section 10 - STABILITY AND REACTIVITY

Reactivity
Not expected to occur.

Chemical Stability
This is a stable material.

Possibility of Hazardous Reactions
Hazardous polymerization will not occur under normal conditions of storage and use.

Conditions to Avoid
Avoid strong oxidizing agents.

Incompatible Materials
Avoid strong oxidizing agents.

Hazardous decomposition products
Carbon monoxide and Asphyxiants.

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:
Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)
Oral LD50  Rat  >15 g/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

<table>
<thead>
<tr>
<th>Component</th>
<th>Aquatic Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthenic Oil</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Fish:</td>
<td>LC50 96 h Oncorhynchus mykiss &gt;5000 mg/L</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna &gt;1000 mg/L IUCLID</td>
</tr>
<tr>
<td>Distillates, petroleum, hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
</tr>
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</table>

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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.
Section 14 - TRANSPORT INFORMATION

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.
All components are on the U.S. EPA TSCA Inventory List. Supplier(s) of proprietary component(s) have stated that their components appear on the Canadian DSL/NDSL.

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 product is not WHMIS controlled.

Component Analysis - Inventory
Naphthenic Oil (Trade Secret)

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<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)

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<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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Tall oil, potassium salt (68647-71-2)

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</table>
Section 16 - OTHER INFORMATION

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

NFPA Ratings
Health: 1 Fire: 2 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; CA/MA/MN/NJ/PA -
California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CFR -
Code of Federal Regulations (US); 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; EC – European
Commission; EEC - European Economic Community; EIN - European Inventory of (Existing
Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical
Substances; ENCS - Japan Existing and New Chemical Substance Inventory; 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; ISHL - Japan Industrial Safety and Health Law;
IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water
partition coefficient; KECL – Korea Existing Chemicals Inventory; KECSI - Korea Existing Chemicals
List; KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; 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; MX – Mexico; NDSL – Non-
Domestic Substance List (Canada); 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; PEL-
Permissible Exposure Limit; 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; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV -
Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted
Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States;
VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System
(Canada).
Other Information

Disclaimer:
Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.