



Safety Data Sheet

Material Name: E-Prep 255

SDS ID: EPI-0410c

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

E-Prep 255

Product Use

Steel Surface Conditioner.

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 #: Chemtrec #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.

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

GHS Label Elements

Symbol(s)



Signal Word

Warning

Hazard Statement(s)

Causes skin irritation.

Causes serious eye irritation.

Precautionary Statement(s)

Prevention

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.



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Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Specific treatment (see label).

Storage

None needed according to classification criteria.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

May cause irritation to eyes, skin and respiratory tract. This product may be harmful if swallowed.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | Component Name | Percent |
|------------|----------------------|---------|
| 7732-18-5 | Water | 75-85 |
| 7681-38-1 | Sodium bisulfate | 1-4 |
| 27546-07-2 | Ammonium dimolybdate | .5-2 |

Section 4 - FIRST AID MEASURES

Inhalation

If inhaled, immediately remove the affected person to fresh air. If symptoms persist, get medical attention.

Skin

Wash skin with soap and water. If irritation develops or persists, seek medical attention.

Eyes

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

Ingestion

If material is swallowed in large amounts, get medical attention. Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsion.



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Most Important Symptoms/Effects

Acute

This product may cause irritation to the eyes. This product may cause irritation to the skin.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use methods for the surrounding fire.

Special Hazards Arising from the Chemical

Not available.

Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Fire Fighting Measures

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Isolate area. Keep unnecessary personnel away. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

Methods and Materials for Containment and Cleaning Up

Contain the discharged material. Stop source of leak if possible. Block any potential routes to water systems. Ventilate the contaminated area. Absorb spilled product with a commercial oil absorbent, such as sand or earth. Shovel absorbed material into appropriate container for disposal. Wear appropriate protective equipment and clothing during clean-up. Avoid skin contact and inhalation of vapors during disposal of spills. Isolate area. Keep unnecessary personnel away. Follow all Local, State, Federal and Provincial regulations for disposal. Surfaces may become slippery after spillage.

Environmental Precautions

Comply with regulations for spill reporting.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Wash thoroughly after handling. Do not reuse the empty container.



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Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria.

Store in a well-ventilated place. Keep container tightly closed.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

| | |
|----------------------|---|
| Ammonium dimolybdate | 27546-07-2 |
| ACGIH: | 0.5 mg/m ³ TWA as Mo respirable fraction (related to Molybdenum soluble compounds) |
| NIOSH: | 1000 mg/m ³ IDLH as Mo (related to Molybdenum soluble compounds) |
| OSHA (US): | 5 mg/m ³ TWA as Mo (related to Molybdenum soluble compounds) |
| Mexico: | 5 mg/m ³ TWA LMPE-PPT as Mo (related to Molybdenum soluble compounds) |
| | 10 mg/m ³ STEL [LMPE-CT] as Mo (related to Molybdenum soluble compounds) |

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

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear chemical goggles; face shield (if splashing is possible).

Skin Protection

Use of protective coveralls and long sleeves is recommended. Use of an impervious apron is recommended.

Respiratory Protection

If ventilation is not sufficient to effectively prevent buildup of vapors, wear appropriate respiratory protection.

Glove Recommendations

Use impervious gloves.

Protective Materials

Eye wash fountain and emergency showers are recommended.



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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------|--------------------------|---|--------------------------|
| Appearance | Pale Yellowish Solution | Physical State | Liquid |
| Odor | Sweet | Color | Not available |
| Odor Threshold | Not available | pH | 2.5 - 3.4 |
| Melting Point | Not available | Boiling Point | 212 °F (100 °C) |
| Freezing point | 32 °F (0 °C) | Evaporation Rate | (Approx. equal to Water) |
| Boiling Point Range | Not available | Flammability (solid, gas) | Not available |
| Autoignition | Not available | Flash Point | Not available |
| Lower Explosive Limit | Not available | Decomposition | Not available |
| Upper Explosive Limit | Not available | Vapor Pressure | Not available |
| Vapor Density (air=1) | (Approx. equal to water) | Specific Gravity (water=1) | 1.175 - 1.25 |
| Water Solubility | Completely | Partition coefficient: n-octanol/water | Not available |
| Viscosity | Not available | Solubility (Other) | Not available |
| Density | Not available | VOC | 0 |

Section 10 - STABILITY AND REACTIVITY

Reactivity

Will not occur.

Chemical Stability

This is a stable material.

Possibility of Hazardous Reactions

Will not occur.

Conditions to Avoid



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None identified.

Incompatible Materials

This product may react with strong acids or oxidizing agents. This product may react with strong alkalis.

Hazardous decomposition products

Thermal decomposition products

Upon thermal decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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

Sodium bisulfate (7681-38-1)

Oral LD50 Rat 2490 mg/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

| | |
|----------------------|---|
| Ammonium dimolybdate | 27546-07-2 |
| ACGIH: | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (related to Molybdenum soluble compounds) |

Germ Cell Mutagenicity

No data available.

Tumorigenic Data

No data available



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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.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

| | |
|------------------|---|
| Sodium bisulfate | 7681-38-1 |
| Invertebrate: | EC50 48 h Daphnia magna 190 mg/L IUCLID |

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

No Classification assigned.

TDG Information:

No Classification assigned.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations



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None of this products 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

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS | CA | MA | MN | NJ | PA |
|----------------------|------------|-----|----|-----|----|----|
| Ammonium dimolybdate | 27546-07-2 | Yes | No | Yes | No | No |

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

| | |
|----------------------|---------------------------------------|
| Sodium bisulfate | 7681-38-1 |
| | 1 % |
| Ammonium dimolybdate | 27546-07-2 |
| | 1 % (related to Molybdenum compounds) |

Component Analysis - Inventory

Water (7732-18-5)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | No | No | Yes | No | Yes | Yes | Yes |

Sodium bisulfate (7681-38-1)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes |

Ammonium dimolybdate (27546-07-2)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | No | Yes | No | Yes | No | Yes | Yes | Yes |



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Section 16 - OTHER INFORMATION

HMIS Rating

Health: 0 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

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.