



Safety Data Sheet

Material Name: E-Prep 258

SDS ID: EPI-0207

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

E-Prep 258

Product Use

Steel Surface Conditioner.

Manufacturer Information

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 1

Serious Eye Damage/Eye Irritation - Category 1

GHS Label Elements**Symbol(s)****Signal Word**

Danger

Hazard Statement(s)

Causes severe skin burns and eye damage

Precautionary Statement(s)**Prevention**



Safety Data Sheet

Material Name: E-Prep 258

SDS ID: EPI-0207

Wear protective gloves/protective clothing/eye protection/face protection
Wash thoroughly after handling
Do not breathe dusts or mists

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
Immediately call a POISON CENTER or doctor
Specific treatment (see label)

Storage

Store locked up

Disposal

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

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
7732-18-5	Water	80-90
6153-56-6	Ethanedioic acid, dihydrate	8-15

Section 4 - FIRST AID MEASURES

Inhalation

Allow the victim to rest in a well ventilated area. Monitor for respiratory distress. Seek immediate medical attention.

Skin

If the chemical got onto the clothed portion of the body, remove the contaminated clothes, shoes, and jewelry, protecting your own hands and body. Place the victim under a deluge shower for at least 15 minutes. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap or epsom salts. If irritation persists, seek medical attention. Wash contaminated clothing before reusing, discard contaminated shoes.

Eyes



Safety Data Sheet

Material Name: E-Prep 258

SDS ID: EPI-0207

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek immediate medical attention.

Ingestion

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. If conscious, give lots of water, milk, or dilute solution of any soluble calcium or magnesium salt to rinse mouth and drink. Seek immediate medical attention.

Section 5 - FIRE FIGHTING MEASURES

Hazardous Combustion Products

Oxides of carbon. Irritating and toxic gases may be released during a fire.

Fire Fighting Measures

Dry chemical, foam, carbon dioxide, water fog.

Section 6 - ACCIDENTAL RELEASE MEASURES

Environmental Precautions

Dike the spill with sand or earth. Sweep up and shovel into suitable containers for disposal.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Store locked up
Keep container tightly closed.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Ethanedioic acid, dihydrate	6153-56-6
ACGIH:	1 mg/m ³ TWA (related to Oxalic acid)



Safety Data Sheet

Material Name: E-Prep 258

SDS ID: EPI-0207

	2 mg/m ³ STEL (related to Oxalic acid)
NIOSH:	1 mg/m ³ TWA (related to Oxalic acid)
	2 mg/m ³ STEL (related to Oxalic acid)
	500 mg/m ³ IDLH (related to Oxalic acid)
Europe:	1 mg/m ³ TWA (related to Oxalic acid)
OSHA (US):	1 mg/m ³ TWA (related to Oxalic acid)
Mexico:	1 mg/m ³ TWA LMPE-PPT (related to Oxalic acid)
	2 mg/m ³ STEL [LMPE-CT] (related to Oxalic acid)

Biological limit value

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

Engineering Controls

Use local exhaust ventilation.

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

The use of rubber gloves, long sleeved shirt and trousers are required.

Respiratory Protection

Wear a dust mask if dust is generated above exposure limits.

Glove Recommendations

The use of rubber gloves is recommended.

Protective Materials

Eye wash fountain and emergency showers are recommended.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear slightly yellow solution	Physical State	Liquid
Odor	Slight musty odor	Color	Not available
Odor Threshold	Not available	pH	0 - 1.5
Melting Point	Not available	Boiling Point	212 °F



Safety Data Sheet

Material Name: E-Prep 258

SDS ID: EPI-0207

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)	1.03 - 1.055
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

Avoid strong oxidizing agents. Avoid Strong reducing agents. This product may react with strong alkalies.

Incompatible Materials

None identified.

Hazardous decomposition products

Thermal decomposition products

High heat decomposition can result in carbon dioxide, carbon monoxide and oxalic acid vapors.



Safety Data Sheet

Material Name: E-Prep 258

SDS ID: EPI-0207

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 LD50Rat >90 mL/kg

Ethanedioic acid, dihydrate (6153-56-6)

Oral LD50Rat 375 mg/kg

Dermal LD50Rat 20000 mg/kg (related to Oxalic acid)

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.

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.



Safety Data Sheet

Material Name: E-Prep 258

SDS ID: EPI-0207

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Ethanedioic acid, dihydrate	6153-56-6
Invertebrate:	EC50 48 h Daphnia magna 125 - 150 mg/L [static] EPA (related to Oxalic acid)

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:

Shipping Name: Corrosive Liquid N.O.S., (Contains: Oxalic Acid)

Hazard Class: 8

UN/NA #: UN1760

Packing Group: II

Required Label(s): Corrosive

TDG Information:

Shipping Name: Corrosive Liquid N.O.S., (Contains: Oxalic Acid)

Hazard Class: 8

UN#: UN1760

Packing Group: II

Required Label(s): Corrosive

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.



Safety Data Sheet

Material Name: E-Prep 258

SDS ID: EPI-0207

Ethanedioic acid, dihydrate	6153-56-6
TSCA 12b:	Section 4 , 1 % de minimus concentration (related to Oxalic acid)

All components are on the U.S. EPA TSCA Inventory List. This product is in compliance with TSCA.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: no **Chronic Health:** no **Fire:** no **Pressure:** no **Reactivity:** no

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
Water	7732-18-5	No	No	No	No	Yes
Ethanedioic acid, dihydrate	6153-56-6	Yes	Yes	Yes	Yes	Yes

Not listed under California Proposition 65

Canada Regulations

This material is a controlled product under Canadian WHMIS regulations.

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

Ethanedioic acid, dihydrate	6153-56-6
	0.1 % (related to Oxalic acid)

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

Ethanedioic acid, dihydrate (6153-56-6)

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

Section 16 - OTHER INFORMATION

HMIS Rating



Safety Data Sheet

Material Name: E-Prep 258

SDS ID: EPI-0207

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.