

1

PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:

Product Form: Proprietary Liquid Blend - Non-Potable

Product Name: SPER Rust Remover

Common Name: Blended Ethanedioic Acid, Dihydrate/Hydrochloric Acid Liquid Compound.

SDS Number: ISR

Revision Date: 02/28/2020

Version: 1.0

Product Use: Mineral stain cleaner to remove existing mineral discolored surfaces.

Manufacturer Address: SPER Chemical Corporation
14770-B 62nd Street N.
Clearwater, FL 33760

Emergency: CHEM-TEL 800-255-3924

Information: General Questions – 727-535-9033

2

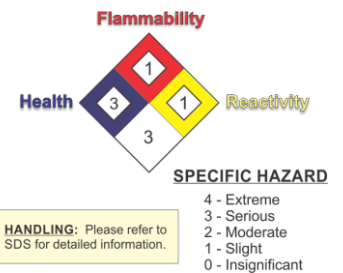
HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:

Classification (GHS-US)

GHS Hazard Phrases:

H302 – May be Harmful if swallowed.
H290 – May be corrosive to metals.
H319 – May Cause serious eye irritation.
H314 – May Cause severe skin burns and eye damage



GHS Precaution Phrases:

P234 – Keep only in original container.
P264 – Wash hands thoroughly after handling.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P260 – Do not breathe dust/fume/gas/mist/vapors/spray.
P301+312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313 – If eye irritation persists, get medical advice/attention.
P390 – Absorb spillage to prevent material damage.
P405 – Store locked up.
P501 – Dispose of contents/container in accordance with all federal, state and local regulations.

GHS Response Phrases:

P301+312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313 – If eye irritation persists, get medical advice/attention.
P390 – Absorb spillage to prevent material damage.

GHS Storage and Disposal

P405 – Store locked up.
P501 – Dispose of contents/container in accordance with all federal, state and local regulations.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

Potential Health Effects

May causes serious eye damage and skin irritation. Harmful if swallowed or if inhaled.

(Acute and Chronic):

Eye Contact: Corrosive. May cause eye burns and permanent tissue damage.
Skin Contact: Direct contact may cause burns to skin, eyes, and respiratory tract.
Ingestion: Can be corrosive to mouth, esophagus and stomach.
Inhalation: Harmful if inhaled. Vapors and/or aerosols may be irritating to eyes and respiratory tract.

3

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	Product Identifier	% (w/w)	Classification (GHS-US)
Purified Water (17 megohm)	(CAS No) 7732-18-5	Proprietary	Not Classified
Ethanedioic Acid, dihydrate	(CAS No) 6153-56-6	Proprietary	See section 2

SDS

SPER Rust Remover

Liquid - Surface Cleaning Formulation

3 cont.

COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Hydrogen Chloride

(CAS No) 7647-01-0

Proprietary

See section 2

A range of concentration as prescribed by Controlled Products Regulations has been used where necessary, due to varying composition. The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

4

FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Eye Contact: CORROSIVE-Causes severe irritation and burns. Liquid or vapor may cause: severe irritation, pain, redness, watering, corneal opacity, burns, tissue destruction, permanent eye damage, blindness.

Ingestion: CORROSIVE-Causes severe irritation and burns. Harmful or fatal if swallowed. Causes burns of the: mouth, throat, esophagus, stomach. Symptoms may include: difficulty swallowing, intense thirst, nausea, vomiting, diarrhea, stomach pain, circulatory collapse.

Note to Physician: All treatment should be based on observed signs and symptoms of distress in the patient. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5

FIRE FIGHTING MEASURES

Flammability Classification: Not combustible. For fires in area, use appropriate media.

Suitable Extinguishing Media: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers and disperse vapors. Product generates heat upon addition of water, with possible spattering. Neutralize run-off with Lime, Soda Ash, etc., to prevent corrosion of metals and formation of Hydrogen gas.

Unsuitable Extinguishing Media: None known.

Fire Fighting Instructions: Wear positive pressure self-contained breathing apparatus (SCBA).

6

ACCIDENTAL RELEASE MEASURES

Personal Precautions: CORROSIVE MATERIAL. Wear protective equipment. Keep unprotected persons away.

Small Spills: Neutralize with Soda Ash or Lime and dispose of properly. Mop up spill and place in an appropriate closed container. Product residuals may be safely rinsed with water and evacuated into the sanitary sewer system.

Large Spills: CORROSIVE MATERIAL Neutralize with Soda Ash or Lime and dispose of properly. Squeegee material to a controlled area and mop up spill to be placed in appropriate container. Product residuals may be safely rinsed with water and evacuated into the sanitary sewer system.

7

HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust.

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SPER Rust Remover

Liquid - Surface Cleaning Formulation

8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Exposure Limits/Guidelines: General room ventilation and local exhaust are required.

Engineering Measures/Controls: Process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Avoid creating dust or mist. Maintain adequate ventilation. Do not use in closed or confined spaces.

Personal Protective Equipment: Protective goggles, Gloves, Protective clothing.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Wear chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental Exposure Controls: Do not allow the product to be released into the environment. Neutralize with Soda Ash or Lime. May be released or rinsed into the sanitary sewer system with dilution with water.

9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, light amber in color

Odor: Slightly pungent

pH of 1% solution: 0.9 - 1.3

Freezing Point: -15° C (5° F)

Flash Point: Not available

Decomposition Temp: Not available

UFL / LFL: Not available

Vapor Density: Not available

Bulk Density: 9.8 lbs. /gallon

Viscosity: Not available

Physical State: Liquid

Odor: Threshold: Not available

Melting Point: Not available

Boiling Point: Not available

Auto-Ignition Temp: Not available

Flammability: Not available

Vapor Pressure: Not available

Specific Gravity: 1.18

Solubility: Soluble

Molecular weight: Not available

10

STABILITY AND REACTIVITY

Chemical Stability: Stable under normal recommended handling and storage conditions (see section 7).

Reactivity: No dangerous reaction known under conditions of normal use.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur. Contact with water may cause excessive reaction with evolution of heat. To dilute: Add product slowly to lukewarm water. May react with certain metals to produce flammable hydrogen gas. Hazardous gases are evolved on contact with chemicals such as cyanides, sulfides, carbides, etc. Contact with oxidizing agents may produce chlorine gas. May react with incompatible substances, releasing heat.

Conditions to Avoid: Heat flames and contact with strong alkalis.

Incompatible Materials: Most metals. Alkalies, Metal Oxides, Amines, Water-reactive substances, Sulfuric acid, Oleum, Acetic Anhydride, Carbonates, Cyanides, Sulfides, Hypochlorites, Sodium, Bases, Formaldehyde, Oxidizing agents, Reducing agents, Perchloric Acid, Potassium permanganate, Aldehydes, Epoxides, Fluorine, Acetylides, Carbides, Chlorosulfonic acid, Propylene oxide, Vinyl acetate, Hexalithium disilicide, Propiolactone.

Hazardous Decomposition Products: Hydrogen chloride gas, Hydrogen gas, Chlorine.

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SPER Rust Remover

Liquid - Surface Cleaning Formulation

11

TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Acute Toxicity: LD50 Oral – rat →1200 MG/KG
LD50 Dermal – rat – >12000 MG/KG
LC50 Inhalation – No data available

Skin Corrosion/Irritation: **CORROSIVE** Causes irritation and burns. Causes pain, redness, blistering, swelling of skin.

Skin Sensitization: No absorption hazard expected under normal use.

Carcinogenic: This product contains components that are classified as non-carcinogenic.

Mutagenic: This product contains components that are classified as non-mutagenic.

Potential Health Effects:

Skin: **CORROSIVE.** May cause skin irritation. Flush with copious amounts of water.

Eye: **CORROSIVE.** Causes serious irritation and burns. Liquid or vapor may cause severe irritation, pain, redness, watering, corneal opacity.

Ingestion: **CORROSIVE.** Causes severe irritation and burns. Harmful or fatal if swallowed. Causes burns of the mouth, throat, esophagus, and stomach. Symptoms may include difficulty swallowing, intense thirst, nausea, vomiting, diarrhea, and stomach pain.

12

ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish: LC50 > 820 mg/L 96 hours (Rainbow Trout)
EC50 > 1050 mg/L 48 hours (Daphnia magna)

Persistence and degradability: No data found for this product.

Bio-accumulative Potential: No data found for this product.

Mobility in soil: No data found for this product

Results of PBT and vPvB assessment: No Data

Other adverse effects: No data available

13

DISPOSAL CONSIDERATIONS

Product Waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. For large spills contain material and call local authorities for emergency assistance.

Packaging Waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

14

TRANSPORT INFORMATION

US DOT: UN3265 Corrosive Liquid, Acidic, Organic, (Blended Ethanedioic Acid, Dihydrate/Hydrochloric Acid, water) N.O.S. Class: 8 Packing Group: III –Corrosive.

IMDG: UN3265 Corrosive Liquid, Acidic, Organic, (Blended Ethanedioic Acid, Dihydrate/Hydrochloric Acid, water) N.O.S. Corrosive Liquid, Acidic, Organic Class: 8 Packing Group: III –Corrosive.

IATA: UN3265 Corrosive Liquid, Acidic, Organic, (Blended Ethanedioic Acid, Dihydrate/Hydrochloric Acid, water) N.O.S. UN Class: 8 Packing Group: III –Corrosive.

15

REGULATORY INFORMATION

US Federal Regulations:

TSCA: All ingredients are listed on the United States TSCA (Toxic Substances Control Act) inventory.

SDS

SPER Rust Remover

Liquid – Surface Cleaning Formulation

15 (cont.)

REGULATORY INFORMATION

CERCLA: No components of this product are listed

SARA Title III (EPCRA) Section 313: No components of this product are listed

SARA Title III (EPCRA) Section 311/312: Immediate (Acute) Health Hazard

Canadian Regulations: Materials causing other toxic effects; E-Corrosion Material.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA

California Proposition 65: No significant risk level

NOTICE

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Manufacturer expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Manufacturer makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Manufacturer's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.