



SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: ESA-675
Product Name: RUST REMOVER
Revision Date: Mar 25, 2024 **Date Printed:** Mar 25, 2024
Version: 3.0 **Supersedes Date:** Sep 08, 2021
Manufacturer's Name: EZ Strip
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Product/Recommended Uses: Rust remover

SECTION 2) HAZARDS IDENTIFICATION

Classification

Acute toxicity Oral - Category 5
Serious Eye Damage - Category 1
Skin Irritation - Category 2
Skin Sensitizer - Category 1

Safety data sheet prepared in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Pictograms



Signal Word

Danger

Hazardous Statements - Health

H303 - May be harmful if swallowed
H318 - Causes serious eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction

Precautionary Statements - General

P101 + P102 + P103 - If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

Precautionary Statements - Prevention

P280 - Wear protective gloves, protective clothing, eye protection/face protection.
P264 - Wash hands thoroughly after handling.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements - Response

P312 - Call a POISON CENTER or doctor, if you feel unwell.

P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

P302 + P352 + P362 + P364 + P333 + P313 - IF ON SKIN: Wash with plenty of water. Take off contaminated clothing. And wash it before reuse. If skin irritation or a rash occurs: Get medical advice/attention.

Precautionary Statements - Storage

No precautionary statement available.

Precautionary Statements - Disposal

P501 - Dispose of contents and container in accordance with local, national and international regulation.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0001310-58-3	POTASSIUM HYDROXIDE	3% - 7%
0002809-21-4	1-HYDROXYETHANE-1-1-DIPHOSPHONIC ACID	3% - 7%
0000077-92-9	CITRIC ACID	1% - 5%
0004719-04-4	S-TRIAZINE-1,3,5(2H,4H,6H)-TRIETHANOL	0.1% - 1%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

Most important symptoms and effects, both acute and delayed

May cause allergic reaction to skin.

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of gently flowing water for a duration of 15-20 minutes. If skin irritation or a rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use {or discard}.

Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Immediately call a POISON CENTER or doctor.

Ingestion

Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media suitable for the surrounding fire.

Unsuitable Extinguishing Media

Do not use direct water stream since this may cause fire to spread.

Specific Hazards in Case of Fire

Fire will produce irritating and corrosive gases.

Fire-fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Recommended Equipment

Refer to Section 8 for specific personal protective equipment.

Personal Precautions

Avoid breathing vapor or mist. Do not get on skin, eyes or clothing.

Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Ventilate area after clean-up is complete.

SECTION 7) HANDLING AND STORAGE

General

Wash hands after use. Avoid breathing vapor or mist. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. All containers must be properly labelled. Do not get in eyes, on skin, or on clothing. Eyewash stations and showers should be available in areas where this material is used and stored

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. Report ventilation failures immediately.

Storage Room Requirements

Store in a cool, dry and well ventilated area. Keep away from incompatible materials. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)
POTASSIUM HYDROXIDE		2						C 2

Chemical Name	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis	CAN_ONtmg	CAN_ONtppm	CAN_ONsmg	CAN_ONsppm
POTASSIUM HYDROXIDE				URT, eye, & skin irr				

Chemical Name	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)
POTASSIUM HYDROXIDE							

(C) - Ceiling limit, irr - Irritation, URT - Upper respiratory tract

The information in this Section does not list non-hazardous components that might have relevant OSHA TWA (mg/m3), OSHA TWA (ppm), OSHA Skin designation, OSHA Tables (Z1, Z2, Z3), ACGIH STEL (ppm), ACGIH Carcinogen, ACGIH Notations, ACGIH TLV Basis, NIOSH TWA (ppm), NIOSH TWA (mg/m3), NIOSH STEL (ppm), NIOSH STEL (mg/m3), ACGIH TWA (ppm) regulatory values, if they are present at less than 1%. Please contact manufacturer for more information.

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Density	9.28962 lb/gal
Specific Gravity	1.11314
% Solids By Weight	20.22000%
% VOC	6.10391%

Appearance	Clear pale pink-yellow liquid
Odor Threshold	N/A
Odor Description	Mild
pH	5.50000
Water Solubility	Soluble
Flammability	N/A
Flash Point Symbol	N/A
Flash Point	N/A
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	N/A
High Boiling Point	N/A
Auto Ignition Temp	N/A
Decomposition Pt	N/A
Evaporation Rate	N/A
Coefficient Water/Oil	N/A
Kinematic Viscosity	N/A
Kinematic Viscosity Temperature	N/A

SECTION 10) STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical Stability

Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions/Polymerization

Will not occur.

Conditions To Avoid

Avoid heat, sparks, flame and contact with incompatible materials

Incompatible Materials

Strong bases, acids, and oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon.

SECTION 11) TOXICOLOGICAL INFORMATION

Aspiration Hazard

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

Respiratory/Skin Sensitization

May cause an allergic skin reaction

0001310-58-3 POTASSIUM HYDROXIDE

May cause a skin allergy.

Serious Eye Damage/Irritation

Causes serious eye damage

0001310-58-3 POTASSIUM HYDROXIDE

Contact can severely irritate and burn the eyes leading to eye damage.

Skin Corrosion/Irritation

Causes skin irritation

0001310-58-3 POTASSIUM HYDROXIDE

Contact can severely irritate and burn the skin.

Specific Target Organ Toxicity - Repeated Exposure

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

0001310-58-3 POTASSIUM HYDROXIDE

Exposure can cause headache, dizziness, nausea and vomiting.

Acute Toxicity

May be harmful if swallowed

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is 3542.73 mg/kg body weight

The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

Likely Routes of Exposure

Inhalation, Ingestion, Skin contact, Eye contact

0001310-58-3 POTASSIUM HYDROXIDE

LD50 (oral, rat): 365 mg/kg (7)

LD50 (oral, male rat): 273 mg/kg (8)

SECTION 12) ECOLOGICAL INFORMATION

Toxicity

Based on available data, the classification criteria are not met.

0001310-58-3 POTASSIUM HYDROXIDE

LC50(Fish - Gambusia Affinis , 96 hrs) : 80 mg/L

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14) TRANSPORT INFORMATION

	Canadian TDG Information	U.S. DOT Information
UN number:	Not Regulated	Not Regulated
Proper shipping name:	N/A (N/A)	N/A (N/A)
Hazard class:	Not Applicable	Not Applicable
Packaging group:	Not Applicable	Not Applicable
Hazardous substance (RQ):	No Data Available	No Data Available
Marine Pollutant:	No Data Available	No Data Available
Note / Special Provision:	No Data Available	No Data Available

Toxic-Inhalation Hazard:	No Data Available	No Data Available
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SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0001310-58-3	POTASSIUM HYDROXIDE	3% - 7%	DSL, SARA312, TSCA, Canada_ON_419, NJ_RightToKnow_HazSubList - NJ_Right to Know Hazardous Substance List (RTKHSL), MA_RightToKnow - MASSACHUSETTS RIGHT TO KNOW
0002809-21-4	1-HYDROXYETHANE-1-1-DIPHOSPHONIC ACID	3% - 7%	Canada_NPRI, DSL, SARA312, TSCA
0000077-92-9	CITRIC ACID	1.00% - 5%	DSL, SARA312, TSCA, Canada_ON_419
0004719-04-4	S-TRIAZINE-1,3,5(2H,4H,6H)-TRIETHANOL	0.10% - 1.00%	DSL, SARA312, TSCA
0000067-63-0	ISOPROPYL ALCOHOL	0.10% - 1.00%	SARA313, Canada_NPRI, DSL, SARA312, IARCCarcinogen, TSCA, Canada_ON_419, NJ_RightToKnow_HazSubList - NJ_Right to Know Hazardous Substance List (RTKHSL), MA_RightToKnow - MASSACHUSETTS RIGHT TO KNOW

The information in this Section does not list non-hazardous components that might have relevant DSL, MA_RightToKnow - MASSACHUSETTS RIGHT TO KNOW, NJ_RightToKnow_HazSubList - NJ_Right to Know Hazardous Substance List (RTKHSL), SARA312, TSCA, Canada_NPRI, DSL regulatory values, if they are present at less than 1%. Please contact manufacturer for more information.

Product does not contain any chemicals listed under California Proposition 65

SECTION 16) OTHER INFORMATION

Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL- Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

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Version 1.0:

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