

MATERIAL SAFETY DATA SHEET

Nr. Review: 05	Emission/Review date: 20/02/2020	Last review date: 05/04/2019	Code: FISPQ-SGQ-07
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1 – IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Product Identifier

Trade Name: Prizm

1.2 Application of the product

The product removes water spots, especially those containing calcium and magnesium, which may be contained in acid rain. Its action also eliminates glass impurities and contaminants that are not eliminated during conventional cleaning.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: EVC Industrial Ltda

Elaboration: Paulo Henrique Sampaio Nobre

CRQ (Regional Chemistry Council): 10400261- 10th region

Address: Rua Luiz Francisco Xavier, 520, Paupina - Cep-60872-508

Company's telephone number: (085) 3274-2896

Emergency telephone number: 0800.014.1149

2 – HAZARDS IDENTIFICATION

2.1 Product Hazards:

Adverse human health hazards: The product may be toxic to humans and the environment if not used according to instructions. Contact with the product causes irritation in the eyes and eyelids and may cause prolonged or permanent damage to the vision if not removed quickly. Contact with the product can cause skin burns. In case of ingestion, it may cause severe burns of the mucous membranes.

Environmental hazards:

Air: Evaporation of hydrocarbons reduces the concentration of oxygen, making the environment asphyxiating and extremely explosive.

Water: Contamination can transmit unwanted qualities to water, impairing its use, in addition to causing toxic effects to aquatic life. Avoid entering the product in watercourses. Dangerous for aquatic organisms and may cause death.

Physical, chemical and other specific hazards: There is no other hazard related to the product.

Main Symptoms: Inhalation of the product may lead to symptoms such as coughing, wheezing and a burning sensation. Contact of the product with the eyes can cause redness, pain and blurred vision. If in contact with the skin, the appearance of blisters and a burning sensation may occur. Symptoms arising from the ingestion of the product may also occur, such as abdominal pain, burning sensation, collapse and shock.

2.2 Classification of Substance or Mixture

Acute Toxicity Classification: Category 2

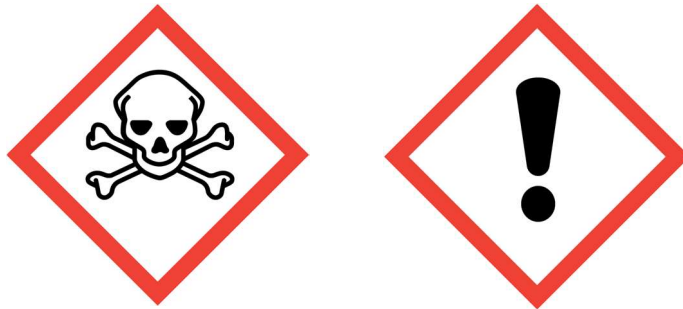
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2.3 Signal Words

Danger!

2.4 Hazard Pictogram



2.5 Hazard statements

- H301 – Toxic if swallowed
- H311 – Toxic in contact with skin
- H314 – Causes severe skin burns and eye damage
- H317 - May cause an allergic skin reaction
- H319 – Causes serious eye irritation

2.6 Precautionary statements

- P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray.
- P264 - Wash thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 – Use only outdoors or in a well-ventilated area.
- P272 – Contaminated work clothing should not be allowed out of the workplace.
- P260 – Do not breathe dust/fumes/gas/mist/vapours/spray.
- P280 – Wear protective gloves/protective clothing/eye protection/face protection.
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor
- P301+P330 - IF SWALLOWED: Rinse mouth.

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3 - COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture

Chemical Nature: Mixture of hydrocarbon with silicones

Ingredients or impurities that may contribute to the hazard:

Chemical name	CAS No.	Concentration %	Classification*	Notes
Hydrochloric Acid	7647-01-0	0,5 to 1,0%	2 and 4	Acute Toxicity - Oral - Category 4 Acute Toxicity - Skin - Category 4 Acute Toxicity - Inhalation - Category 4 Corrosive / Skin Irritant - Category IC Aspiration hazard - Category 2 Chronic Aquatic Toxicity - Category 4
Sulfonic Acid	85536-14-7	4,0 to 7,0%	1,2,3 and 4	For metals - Category 1 Acute toxicity - Oral - Category 4 Acute toxicities - Dermal - Category 1 Skin corrosion / irritation - Category 2 Serious eye damage / eye irritation - Category 1 Acute toxicity - Inhalation - Category 1 Specific target organ toxicity - Single exposure - Category 3 Dangerous to the aquatic environment - Acute - Category 2 Dangerous to the aquatic environment - Chronic - Category 2

*Classification system adopted: Standard ABNT-NBR 14725-Part 2: 2009. Adoption of the Globally Harmonized System for the Classification and Labeling of Chemicals, UN.

4 - FIRST-AID MEASURES

4.1 First aid measures: Take the victim to an airy place. Remove contaminated clothing. Wash affected body parts with plenty of water and soap. If the victim is unconscious and no longer breathes, practice artificial respiration or oxygenation. Forward to the nearest medical service taking this file.

4.2 After Inhalation: Remove the person to an airy place. If they are not breathing, give artificial respiration. If breathing is difficult, consult a seek medical service immediately.

4.3 After skin contact: Immediately wash the affected area with soap and running water for at least 15 minutes. Remove contaminated clothing. In case of effects/symptoms, consult a doctor.

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Wash contaminated clothing before reuse.

4.4 After eye contact: Flush eyes with plenty of water for at least 15 minutes. Preferably use an eyewash. Seek medical assistance immediately, always carrying the product label and MSDS with the necessary information.

4.5 After ingestion: Do not induce vomiting. Seek medical assistance immediately. It is possible that vomiting occurs spontaneously and should not be avoided; in this case, lay the patient on their side to prevent aspirating waste. **WARNING:** Never give anything orally to an unconscious person. **What actions should be avoided:** Do not apply mouth to mouth breathing if the patient has ingested the product. Use an intermediate manual resuscitation or ambulatory equipment to perform the procedure.

4.6 Protection for first aid providers: Avoid skin and inhalation contact with the product during the process.

4.7 Notes to doctor: Treatment is symptomatic and supportive. In the case of ingestion, gastric emptying procedures such as gastric lavage should not be performed. In case of eye contact, wash with saline followed by occlusion and referral for ophthalmological evaluation. In cases of prolonged inhalation, respiratory manifestations may occur and should be treated symptomatically. In case of ingestion if there are signs of digestive bleeding or abdominal pain, proceed to digestive endoscopy to assess the extent of the lesion.

5 – FIREFIGHTING MEASURES

5.1 Suitable extinguishing media: Foam, CO₂, chemical powder.

5.2 Unsuitable extinguishing media: Jet of water directly onto the burning product, for it can spread violently and increase the intensity of the fire.

5.3 Special Procedures: Non-flammable product. Evacuate the area and fight the fire from a safe distance. Use dikes to contain the water used in combat. Position yourself with your back to the wind. Use water in the form of fog to cool equipment exposed in the vicinity of the fire.

5.4 Hazardous Decomposition Products: Exposed to fire, product decomposition releases carbon monoxide, carbon dioxide and smoke, making the environment asphyxiating. Use a self-contained respirator to approach.

5.5 Special protective equipment for firefighting: Self-contained breathing apparatus and appropriate clothing for firefighting.

5.6 Firefighting measures: Respiratory equipment and protective clothing must be used in firefighting involving chemicals. Boiling points are reported in the respective product safety data sheets. It determines the need to evacuate or isolate the area, according to your local emergency plan. Use a water jet to keep the container fresh.

6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear waterproof coveralls, protection goggles, rubber boots and PVC or nitrile rubber gloves. Respiratory protection must be carried out depending on the concentrations present in the environment or the extent of the spill/leak; for that, one must opt for full-face or semi-face masks with a replaceable filter or air adduction respirators (e.g., self-contained masks).

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6.2 Removal of ignition sources: Interrupt electrical power and turn off sources that generate sparks. Remove all local material that could cause a fire. (e.g., diesel oil). Dust control: not applicable because it is a liquid.

6.3: Prevention of inhalation and contact with skin, mucous membranes and eyes: Wear clothing and accessories as described above, in Item 6.1 Personal Precautions

6.4: Environmental precautions: Avoid contamination of watercourses by preventing the entrance of rainwater galleries (wolf mouth). Prevent spilled product residues from reaching water collections by building dikes with earth, sand or other absorbent material.

6.5 Methods and material for containment and cleaning up: Contain and collect spill with non-combustible absorbent materials (e.g., sand, earth, vermiculite, diatomaceous earth). Place the waste in a container for further treatment in accordance with local regulations. Clean preferably with a detergent; avoid the use of solvents.

6.6 Prevention of secondary hazards: Avoid the product that contains streams, lakes, water sources, wells, rain photos and effluents.

7 - HANDLING AND STORAGE

7.1 Fire and explosion prevention: Do not store with incompatible materials.

7.2 Prevention of worker exposure: Wear PPE (boots, gloves, apron and protection goggles) when handling the product. Do not eat, drink or smoke when handling the product. When opening the packaging, do so to avoid leakage. Do not use damaged or defective personal protective and application equipment. Do not handle and/or load damaged packaging.

7.3 Precautions for safe handling: Use PPE as described in Item 8. Do not mix with chemical products, mainly with chlorine (e.g., bleach) and ammonia-based products.

7.4 Guidelines for safe handling: Use PPE as described in Item 8. Handle the product with the appropriate local exhaust or in a well-ventilated area; if in open environments, handle it with the wind. Apply only the doses recommended by the product registrant (see label).

7.5 Storage

Adequate storage conditions: Keep the product and, if necessary, leftovers in their original used packaging closed.

7.6 Storage conditions

Adequate: Keep the container closed adequately at room temperature and protected from light. Store it in a duly identified location. Lock the place to prevent unauthorized people from accessing screens.

To avoid: Places with heat sources.

Incompatible products and materials: Oxidizing agents. Do not store together with food, drinks, including those intended for animals.

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7.7 Safe packaging materials

Recommended: Product already packed in appropriate packaging.

8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Engineering control measures: Use fans, air circulators, exhaust fans; provide adequate ventilation to the workplace.

8.2 Occupational Exposure Limits:

Component	No. CAS	Agency	Limit	Notes
Sulfonic Acid	85536-14-7	NR15 – ACGIH	TWA: 1 mg/m ³	ND
Hydrochloric Acid	7647-01-0	NR-15 - ACGIH	TWA: 2 ppm	ND

NR-15 (Regulatory standard no. 15)

ACGIH - American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

8.3 Physical and chemical properties:

Hand protection: Gloves during the handling process to avoid direct and prolonged contact with the product.

Eye protection: In operations where splashes may occur, the use of safety glasses is recommended.

Hygiene measures: General control methods used in industrial hygiene should minimize exposure to the product. Do not eat, drink or smoke when handling chemicals—separate work clothes from ordinary clothes.

Respiratory protection: In the process of spraying the product, it is recommended to use a respiratory protector.

9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Aspect: Viscous liquid

9.2 Color: Green

9.3 Odor: Characteristic

9.4 pH: 2.8 (at 1%)

9.5 Specific temperatures or temperature ranges in which physical state changes occur: ND

9.6 Boiling point: 110°C

9.7 Melting point: ND

9.8 Flashpoint: Non-flammable product.

9.9 Lower explosive limit: ND

9.10 Upper explosive limit: ND

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- 9.11 Specific gravity: ND
- 9.12 Steam pressure: ND
- 9.13 Auto-ignition temperature: ND
- 9.14 Density: 1.00 to 1.02 g/ cm³
- 9.15 Solubility in water: Soluble
- 9.16 Auto flammability: ND
- 9.17 Asset content: ND
- 9.18 Viscosity: 200 to 800 cPs

10 - STABILITY AND REACTIVITY

10.1 Chemical stability

The product is stable at room temperature, under normal conditions of use and storage.

10.2 Conditions to avoid

Temperatures above 50 °C, exposure to direct sunlight.

10.3 Hazardous decomposition products:

Fire can release toxic gases and vapors that are harmful to human health.

10.4 Reactivity

Inorganic waste and dirt

10.5 Possibility of hazardous reactions

None

10.6 Incompatible materials or substances

Basic products

11 - TOXICOLOGICAL INFORMATION

11.1 Local effects: The product may cause local irritation, depending on the form of contact and other symptoms, as described in Item 2. The toxicological information values set out below may not reflect the toxicity value of the product because the ingredients may be below concentration, may not be available for exposure or may not be relevant to the material as a whole.

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11.2 Acute toxicity:

Name	Route	Specie	Value
Product	Dermis	-	Estimated value LD50 > 5000 mg/Kg
Product	Ingestion	-	Estimated value LD50 > 5000 mg/Kg
Ácido sulfônico	Inhalation	Rat	LC50 = 510 mg/m ³
Ácido sulfônico	Ingestion	Rat	LD50 = 2.140 mg/Kg
Ácido clorídrico	Ingestion	Rat	LD50 = 700 mg/Kg

LD – Lethal dose

LC –Lethal concentration

11.3 Skin corrosion/irritation: Based on the available information, this product does not have a classification for this criterion.

11.4 Serious eye damage/irritation: Based on the available information, this product does not have a classification for this criterion.

11.5 Skin sensitization: Based on the available information, this product does not have a classification for this criterion.

11.6 Mutagenicity: Based on the available information, this product does not have a classification for this criterion.

11.7 Carcinogenicity: Based on the available information, this product does not have a classification for this criterion.

11.8 Chronic Toxicity: Based on the available information, this product does not have a classification for this criterion.

12 – ECOLOGICAL INFORMATION

12.1 Environmental, behavioral effects and product impacts

Mobility: A highly soluble product that can contaminate the water table by dragging rainwater.

Environmental behavior: The product is an acid, neutralization is usually recommended before the water is discharged into the purification units.

Degradability: ND

Bioaccumulation: ND

Ecotoxicity: ND

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13 – TREATMENT AND DISPOSAL CONSIDERATION

13.1 Waste treatment methods:

Product: Deactivate the product through incineration in ovens intended for this type of operation, equipped with chambers for washing effluent gases and approved by the competent body.

Product remnants: Product remnants may be toxic. Do not dispose of product leftovers improperly after use. Depending on the available quantity, store appropriately for a new application. Keep any leftovers with expired validity in their original containers adequately closed.

Used package: Empty packaging must be stored in a safe place for later return to the commercial establishment where it was acquired within one year. Do not burn or bury packaging. Observe specific State and Municipal Legislation. Consult the State or Municipal Environment Agency.

14 - TRANSPORT INFORMATION

RTPP – Res420/04 ANTT/IMDG/IATA

Proper shipping name: Corrosive liquids, N.O.S. ‡. (Hydrochloric acid / sulfonic acid mixture with low acid concentration)

UN No.: 1760

Class: 8 Risk Number: 80 Packing Group: III

INFORMATION TO BE PRINTED IN THE FISCAL DOCUMENT

Sequence of product information to be inserted in the tax document Based on: **Art 22 of RTPP and item 5.4.1.2.1 of Res 420/04 of ANTT UN 1760 CORROSIVE LIQUID N.E. (Hydrochloric Acid/Sulfonic Acid) 8 III**

Other transport information: Avoid transport in vehicles where the cargo space is not separated from the driver's cab. Ensure that the driver of the vehicle knows the potential risks of the load as well as the measures to be taken in the event of an accident or emergency. Before transporting the containers, check that they are well fixed. Check that the valve is closed and does not leak. Check that the valve outlet plug (when fitted) is correctly installed. Check that the valve protection device (when fitted) is correctly installed. Ensure adequate ventilation. Comply with current legislation.

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15 – REGULATORY INFORMATION

Decree 96.044 / 88 of the Ministry of Transport

RTPP - Regulation for the Transport of Dangerous Products Resolution 420/04

ANTT - National Land Transport Agency NBR 14725

ABNT - Brazilian Association of Technical Standards

Law No. 6,514, of December 22th, 1977 - Regulatory standards (NR) approved by Ordinance No. 3,214, of June 8th, 1978.

15.1 National regulations: SANITATING PRODUCT NOTIFIED AT ANVISA, No. 25351.407270/2016-64, according to current legislation.

15.2 International regulations: Contact EVC Industrial for further information

16 - OTHER INFORMATION

The information and recommendations contained in this MSDS were obtained from reputable sources and based on previous experiences, refer to this specific product and are valid when used according to the label's guidelines. This document was approved electronically.

ABBREVIATIONS AND ACRONYMS

NA: Not applicable

ND: Not Determined

OSHA: Occupational Safety and Health Administration.

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

CAS: Chemical Abstracts Service.

TLV-TWA: Threshold Limit Value – Time-Weighted Average

TLV-STEL: Threshold Limit Value – Short-term exposure

ACGIH: American Conference of Governmental Industrial Hygienists is an organization open to all practitioners in industrial hygiene, occupational health, environmental health, or safety.

PEL: Permissible Exposure Limit

OSHA: Occupational Safety and Health Administration.

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GGVE/GGVS: Gefahrgutverordnung Eisenbahn Bzw Strasse – decree on the transport of hazardous materials by land (railroad and highway).

GGV-See: Gefahrgutverdnungg-See – decree on the transport of hazardous materials by sea.

IMDG: International Maritime Dangerous Goods – international code for the transport of hazardous materials by sea.

CAO: Cargo Aircraft Only – cargo authorized for transportation by cargo plane.

PAX: Passenger Aircraft – amount allowed for transportation on a commercial airplane.

AEL: is the acceptable exposure limit. In places where the occupational exposure limits imposed by government agencies are lower than the AEL, these limits should be preferred.