

MATERIAL SAFETY DATA SHEET

Nr. Review: 06	Emission/Review date: 27/03/2020	Last review date: 02/04/2019	Code: FISPQ-SGQ-66
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1 – IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Product Identifier

Trade Name: VERSE

1.2 Application of the product

is a water-based restorer that conditions and protects against UV rays. It can be used on plastic parts (such as bumpers, dashboards and door panels), rubbers (wheel wells, engine hoses, tires and door seals) and metallic surfaces, especially the engine and chassis compartments. VERSE can be used in different dilutions, depending on the surface and desired appearance.

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: Contact with eyes may irritate.

Environmental hazards: May contaminate soil and rivers.

Specific hazards: The product is not classified as a dangerous product.

Chemical Hazard: N/A

2.2 Classification of Substance or Mixture

Acute Toxicity Classification: Category 5

2.3 Signal Words

Warning!

2.4 Hazard Pictogram

Not required

2.5 Hazard statements

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H303 - May be harmful if swallowed

H320 - Causes eye irritation

2.6 Precautionary statements

P312 - Call a Poison Center/Doctor if you feel unwell

3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Nature: Automotive detergent.

3.2 Product Composition: Anionic surfactant (288.38 g/mol), neutralizing agent, non-ionic surfactant (379 g/mol), preservative, opacifier, fragrance, dye and vehicle.

3.3 Ingredients or impurities that may contribute to the hazard:

CHEMICAL NAME	CAS	CONCENTRATION	CLASSIFICATION	NOTES
morpholine	110-91-8	1-10%	8	NA
aliphatic hydrocarbons	64742-47-8	1-10%	2	aspiration hazard

4 - FIRST-AID MEASURES

4.1 After skin contact: Remove contaminated clothes and shoes, wash the affected parts under running water.

4.2 After eye contact: Remove contact lenses. Wash with under running water. If irritation persists, consult a physician taking the product packaging or label.

4.3 After ingestion: Do not induce vomiting and immediately consult the Poison Center or the doctor taking the product label. Emergency phone number: 0800 014 8110.

4.4 Recommendations for the Doctor: Evaluate the composition described on the label.

5 – FIREFIGHTING MEASURES

5.1 Suitable extinguishing media: Non-flammable product. If a fire starts with other materials, use fire-extinguishing CO₂, chemical powder and water extinguishing agent.

5.2 For safety reasons, unsuitable extinguishing agents: Do not use water extinguishing agent, when there is energized sources on site.

5.3 Specific hazards: There is no specific hazard due to its restriction containing more than 70% water.

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5.4 Special fire fighting methods: The product does not present a risk for special fire methods. Non-flammable product.

5.5 Special equipment for the protection of firefighters: Due to the characteristics of the product, it is not necessary to use special equipment other than those normally used.

6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Remove unnecessary people from the area. Use PPE. If possible, stop the spill or leak source.

6.2 Environmental precautions: Avoid contamination of watercourses by preventing the entrance of rainwater galleries (wolf mouth). Prevent spilled product residues from reaching water collections by absorbing the product with absorbent material (e.g., sawdust, sand or clay). Contact your local security authorities.

6.3 Methods and material for containment and cleaning up: Contain and collect spill. Place the waste in a container for disposal according to local regulations. Clean preferably with water, avoiding the use of solvents. For large spills, contain the liquid in dikes and pump it into suitable containers.

6.4 Prevention of inhalation and contact with skin, mucous membranes and eyes. Wear suitable clothing and accessories.

7 - HANDLING AND STORAGE

7.1 Fire and explosion prevention: Keep people, especially children and pets away from the workplace.

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 in order 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 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.

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8.2 Occupational Exposure Limits:

CHEMICAL NAME	CAS	AGENCY	LIMIT	OBSERVATIONS
morpholine	110-91-8	ACGIH	TWA: 20 PPM	NA
Aliphatic Hydrocarbons	64742-47-8	CRMG	TWA: 165 PPM	-

8.3 Physical and chemical properties:

Hands: Gloves in the handling process to avoid direct and prolonged contact with the product.
Eyes: In operations where projections or splashes may occur, the use of protective goggles is recommended.

9 - PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 State of aggregation: Viscous liquid
- 9.2 pH: 8,0 – 9,0
- 9.3 Color: Greyish blue
- 9.4 Specific temperature or temperature ranges for physical state change: ND
- 9.5 Solubility in water: Soluble
- 9.6 Odor: Characteristic
- 9.7 Fusion point: ND
- 9.8 flash point: ND
- 9.9 Lower Explosive Limit: ND
- 9.10 Limite de Explosividade Superior: ND
- 9.11 Specific gravity: ND
- 9.12 Steam pressure: ND
- 9.13 Autoignition Temperature: ND
- 9.14 Density: 0,98 – 1,00 g/cm³
- 9.15 Solubility in water: Soluble
- 9.16 self-ignitability: ND
- 9.17 Asset Content: ND
- 9.18 Viscosity: 70.000 – 100.000 cPs

10 - STABILITY AND REACTIVITY

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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: There is no release of toxic and irritating gases.

10.4 Reactivity

None

10.5 Possibility of hazardous reactions

None

10.6 Incompatible materials or substances

Cationic materials.

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.

11.2 Acute toxicity:

NAME	ROUTE	SPECIE	VALUE
PRODUCT	Cutaneous	-	ESTIMADO DL50 > 5000 mg/kg
PRODUCT	Oral	-	ESTIMADO DL50 > 5000 mg/kg
Aliphatic Hydrocarbons	Dermis	Rabbit	DL50 > 3.160 mg/kg
Aliphatic Hydrocarbons	Inhalation	Mouse	CL50 > 3.0 mg/L
Aliphatic Hydrocarbons	ingestion	Mouse	DL50 > 5.000 mg/kg
morpholine	Cutaneous	Rabbit	DL50 = 1.900 mg/kg

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morpholine	Oral	Mouse	DL50 = 500 mg/kg
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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

Product	CAS	Method	Value	Time
morpholine	110-91-8	OECD 301 E	92%	22DAYS
Aliphatic Hydrocarbons	64742-47-8	OECD 301 E	74%	28D

Mobility: ND

Environmental behavior: Effects are not expected in consequence of proper use of the product. However, its improper use and contact with soil or aquatic environment can cause imbalance and damage.

Degradability: ND

Bioaccumulation: ND

Ecotoxicity: ND

13 – TREATMENT AND DISPOSAL CONSIDERATION

13.1 Waste treatment methods:

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

Product leftovers: Do not dispose of product leftovers improperly after use. Depending on unused quantity, store accordingly for a new application. Keep any leftovers expired in their original packaging properly closed.

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Used package: This package can be washed and recycled. Throw the empty packaging in the trash.

14 - TRANSPORT INFORMATION

14.1 UN-Number

ADR, IMDG, IATA

Non-dangerous product according to transport regulation criteria.

14.2 UN Shipping Name

ADR, IMDG, IATA

Not available

14.3 Transport Hazard Classes

Not available

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for use

Not applicable

14.7 Transport in bulk according to Marpol Annex II and IBC code.

Not applicable

15 – REGULATORY INFORMATION

15.1 National regulations: Sanitizing product notified at ANVISA Nº 25351.89616433/2021-19, 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.

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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.

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.