MSDS

In accordancy with NBR 14725-4 / 2010

MATERIAL SAFETY DATA SHEET

Nr. Review: 00	Emission/Review date: 02/02/2021	Last review date: XX/XX/XXXX	Code: FISPQ-SGQ-61

1 – IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Product Identifier
Trade Name: Verom

1.2 Product Application

Verom is a water-based product that protects, provides shines and renews all existing surfaces in the engine compartment, such as metal parts, plastic, painted surfaces and rubber hoses. The product forms a film that penetrates difficult places and adheres to all mentioned surfaces.

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 cause eye irritation.

Environmental hazards: The product might contaminate soil and rivers

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

2.2 Classification of Substance or Mixture

Acute Toxicity Classification: Category 5

2.3 Signal Words

Warning!

2.4 Hazard Pictogram

N/A

2.5 Hazard statements

H303 – May be harmful if ingested

H320 - Causes eye irritation

2.6 Precautionary statements

P312 - If you feel unwell, contact an information center toxicology or a doctor.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Engine clear coat

Chemical Nature: Vehicle, film forming agent, preservative, dye, essence, rheological modifier.

Ingredients or impurities that may contribute to the hazard:

Chemical name	CAS No.	Concentration %	Classification*	Notes
Morpholine	110-91-8	0,1 - 5%	8	ND
Hydrocarbons aliphatic	64742-47-8	1 - 10%	2	Aspiration Hazard

*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 After skin contact: Remove contaminated clothing and shoes, washing the affected parts with plenty of water.
4.2 After eye contact: Remove contact lenses present. Wash with plenty of water. If irritation persists, consult a doctor, taking the packaging or product label.
4.3 After ingestion: Do not induce vomiting. Seek medical assistance immediately.
4.4 Doctor recommendation: Evaluate the composition described on the label and MSDS.

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5 – FIREFIGHTING MEASURES

5.1 Suitable extinguishing media: Foam, CO_2, chemical powder.
5.2 Unsuitable extinguishing media: Do not use water extinguishing agent when there are sources energized on site.
5.3 Specific Hazards: There is no specific danger because its formulation contains more than 60% of water.
5.4 Special fire-fighting measures: The product does not pose sufficient hazards to require special fire-fighting methods.
5.5 Special protective equipment for firefighting: Due to the characteristics of the product, it is not necessary to use special equipment.

6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Remove unnecessary people from the area. Use PPE. If possible for the source of spillage or leakage.
6.2: Environmental precautions: Avoid contamination of watercourses by preventing the entrance of rainwater galleries. Prevent spilled product residues from reaching water collections by building dikes with earth, sand or other absorbent material.
6.3 Methods and material for containment and cleaning up:
Contain and collect spillage. Put the waste in a container for disposal in accordance with local regulations. To clean preferably with water, avoiding the use of solvents. For large leaks, contain the liquid in dikes and pump to appropriate containers.
6.4: Prevention of inhalation and contact with skin, mucous membranes and eyes: Wear clothing and accessories as described above, in Item 6.1 Personal Precautions

7 - HANDLING AND STORAGE

7.1 Technical measures: Keep people, especially children and pets away
from the workplace
7.2 Prevention of worker exposure: Wear PPE descript in item 8
7.3 Guidelines for safe handling: Do not eat, drink or smoke in the workplace. Wash well after handling. Do not ingest. Avoid inhalation, aspiration, eye and skin contact. Keep out of the reach of children and pets. Do not reuse the packaging for other purposes. Keep the product in its original package. Do not mix with other products.

7.4 Storage: Suitable storage conditions: keep the product in its original packaging properly closed, in a dry and cool place, away from excessive heat and sunlight.

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
Morpholine	110-91-8	ACGIH	TWA: 20 ppm	ND
Hydrocarbons aliphatic	64742-47-8	CRMG	TWA: 165 ppm	-

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: Use rubber gloves.
Eye protection: Use protection glasses

9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 State of aggregation: Viscous liquid
9.2 Color: Purple
9.3 Odor: Characteristic
9.4 Specific temperatures or temperature ranges in which physical state changes occur: ND
9.5 Boiling point: ND
9.6 Fusion Point: ND
9.7 Flashpoint: ND
9.8 Lower explosive limit: ND
9.9 Upper explosive limit: ND
9.10 Specific gravity: ND
9.11 Steam pressure: ND
9.12 Automatic ignition temperature:ND
9.13 Density: 0,98 to 1,00 g/cm^3
9.14 Solubility in water: Soluble
9.15 Auto flammability: ND
9.16 Viscosity: 2.000 – 4.000 cPs

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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:
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
None

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 of this sheet

11.2 Acute toxicity:

Name	Route	Specie	Value
Product	Dermis	-	Estimated value LD50 > 5000 mg/Kg
Product	Oral	-	Estimated value LD 50 > 5000 mg/Kg
Aliphatic Hydrocarbons	Dermis	Rabbit	DL50 > 3160 mg/Kg
Aliphatic Hydrocarbons	Inhalation	Rat	CL50 > 3.0 mg/Kg
Aliphatic Hydrocarbons	Ingestion	Rat	CL50>3.160 mg/kg
Morpholine	Dermis	Rabbit	DL50 = 1.900 mg/kg
Morpholine	Oral	Rat	DL50 = 500 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.

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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: ND
Environmental behavior: No other effects known environment for that product.
Degradability:

Product	CAS	METHOD	VALUE	TIME
Morpholine	110-91-8	OECD 301 E	92%	22 Days
Aliphatic Hydrocarbons	64742-47-8	OECD 301 E	74%	28 Days

Bioaccumulation: ND
Ecotoxicity: ND

13 – TREATMENT AND DISPOSAL CONSIDERATION

13.1 Waste treatment methods:

Product: Dispose of the product by incineration in ovens intended for this type of operation, equipped with washing of effluent gases and approved by competent bodies. Product leftovers: Do not discard product leftovers improperly after its use. Depending on the unused quantity, store properly for a new application. Keep any leftovers expired in their original packaging properly closed.
Used package: Empty packages must be stored in safe place for later return at the commercial establishment where it was acquired within one year. Don't burn or bury the packaging

14 - TRANSPORT INFORMATION

14.1 regulations nationals and internationals by Land / Waterway / Air:
Non-hazardous product according to the criteria of transport regulations.

15 – REGULATORY INFORMATION

15.1 National regulations: SANITATING PRODUCT NOTIFIED AT ANVISA, No. 25351.710916/2021-55,, 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.
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.

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