

## MATERIAL SAFETY DATA SHEET

Nr. Review: 04	Emission/Review date: 27/03/2020	Last review date: 17/01/2019	Code: FISPQ-SGQ-12
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### 1 – IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

#### 1.1 Product Identifier

Trade Name: V-Light

#### 1.2 Application of the product

Protection and restoration of polycarbonate headlights.

#### 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

H303 - May be harmful if swallowed

H320 - Causes eye irritation

#### 2.6 Precautionary statements

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

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### 3 - COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture

**3.1 Chemical Nature:** Mixture of silicon-based agent hydrocarbons.

**3.2 Ingredients or impurities that may contribute to the hazard:**

Chemical name	CAS No.	Concentration %	Classification*	Notes
Aliphatic hydrocarbons	64742-47-8	30 to 50%	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 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.

**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.

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### 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.

### 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 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

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

#### 7.6 Storage conditions

**Adequate:** Keep the container properly closed 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:** Humid places with high temperatures.

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

#### 7.7 Safe packaging materials

**Recommended:** Product already packed in appropriate packaging.

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### 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	CAS No.	Agency	Limit	Notes
Aliphatic Hydrocarbons	64742-47-8	CMRG	TWA: 165 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:**

**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:** Liquid

**9.2 pH:** ND

**9.3 Color:** Colorless

**9.4 Density at 25°C:** 0,91 to 0,92 g/cm<sup>3</sup>

**9.5 Solubility in water:** Insoluble

**9.6 Odor:** Characteristic

### 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**

Atmospheric air

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### 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. 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	Species	Value
Product	Cutaneous	-	Not defined value, it is estimated LD50 > 5000 mg/Kg
Product	Oral	-	Not defined value, it is estimated LD50 > 5000 mg/Kg
Aliphatic hydrocarbons	Dermis	Rabbit	LD50 > 3.160 mg/kg
Aliphatic hydrocarbons	Inhalation	Rat	LC50 > 3.0 mg/L
Aliphatic hydrocarbons	Ingestion	Rat	LD50 > 5.000 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.

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### 12 – ECOLOGICAL INFORMATION

#### 12.1 Environmental, behavioral effects and product impacts

**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:** The product must be collected in containers for final determination under current legislation. The improper destination of empty packaging and product remains in the environment causes contamination of the soil, water and air, harming fauna, flora and people's health.

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

### 14 - TRANSPORT INFORMATION

**National and international land/waterway/air regulations:** Non-hazardous product according to transport regulation criteria.

### 15 – REGULATORY INFORMATION

**15.1 National regulations:** SANITATING PRODUCT NOTIFIED AT ANVISA, No. 25351.521112/2016-16, 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.