

MATERIAL SAFETY DATA SHEET

Nr. Review: 01	Emission/Review date: 17/03/2020	Last review date: 22/05/2019	Code: FISPQ-SGQ-30
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1 – IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Product Identifier

Trade Name: Moto-V

1.2 Application of the product

Moto-V is a motorcycle washer developed for high efficiency cleaning. Its balanced formulation allows use, without damaging, in all parts of the motorcycle, be it the engine, paint, metals or plastics. The possible dilutions of the product provide at the same time the removal of the most diverse types of dirt such as clay, mud, grease and oil.

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

MATERIAL SAFETY DATA SHEET

Nr. Review: 01	Emission/Review date: 17/03/2020	Last review date: 22/05/2019	Code: FISPQ-SGQ-30
----------------	-------------------------------------	---------------------------------	--------------------

2.6 Precautionary statements

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

3 - COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture

Chemical Nature: General cleaner

Ingredients or impurities that may contribute to the hazard:

Chemical name	CAS No.	Concentration %	Classification*	Notes
Butyl glycol	111-76-2	5 to 10%	2 and 4	Corrosion/irritation to skin - Category 2 Serious eye damage/eye irritation - Category 2A Aspiration hazard - Category 2 Acute toxicity - Oral - Category 4 Acute toxicity - Dermal - Category 4 Acute toxicity - inhalation - Category 4
Caustic soda (NaOH)	1310-73-2	1 to 2%	2 and 4	Skin corrosion/irritation - Category 2 Serious eye damage/eye irritation - Category 2A Aspiration hazard - Category 2 Acute Toxicity - Oral - Category 4 Acute Toxicity - Dermal - Category 4 Acute Toxicity - Inhalation - Category 4

*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 injured person to a fresh air. Remove contaminated clothing. Wash affected body parts with plenty of water and soap. If the victim is unconscious and no longer breathing, practice artificial respiration or oxygenation. Forward it to the nearest medical service with this form.

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

4.3 After eye contact: Remove contact lenses. Wash with under running water. If irritation

MATERIAL SAFETY DATA SHEET

Nr. Review: 01	Emission/Review date: 17/03/2020	Last review date: 22/05/2019	Code: FISPQ-SGQ-30
----------------	-------------------------------------	---------------------------------	--------------------

persists, consult a physician taking the product packaging or label.

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

4.5 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 firefighting 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 commonly 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 the skin, mucous membranes and eyes: Wear clothing and accessories as described above, under 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: Use PPE as described in item 8.

7.3 Guidelines for safe handling: Do not eat, drink, or smoke in the workplace. Wash thoroughly after handling. Do not ingest. Avoid inhalation, aspiration, contact with eyes, and skin. 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.

MATERIAL SAFETY DATA SHEET

Nr. Review: 01	Emission/Review date: 17/03/2020	Last review date: 22/05/2019	Code: FISPQ-SGQ-30
----------------	-------------------------------------	---------------------------------	--------------------

7.4 Storage

Adequate storage conditions: Keep the container closed adequately at room temperature and protected from light.

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.

7.5 Storage conditions

Suitable: Keep container tightly closed, at room temperature and protected from light. Store it in a place, properly identified, exclusively for toxic products. Lock the place preventing access by unauthorized people and children.

To be avoided: Damp places with heat sources. Incompatible products and materials: Oxidizing agents. Do not store together with food, beverages, including those intended for animals.

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
Butyl glycol	111-76-2	NR-15 - ACGIH	TWA: 39 ppm	ND
Caustic soda (NaOH)	1310-73-2	NR-15 - ACGIH	TWA: 2 mg/m ³	ND

NR-15 (Regulatory Standard No. 15)

ACGIH - American Conference of Governmental Industrial Hygienist

TWA: Time-Weighted-Average

8.3 Physical and chemical properties:

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

Eye protection: In operations where splashes or splashes may occur, it is recommended to wear safety glasses.

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

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.

9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical State: Viscous liquid

9.2 pH: 10 to 11

MATERIAL SAFETY DATA SHEET

Nr. Review: 01	Emission/Review date: 17/03/2020	Last review date: 22/05/2019	Code: FISPQ-SGQ-30
----------------	-------------------------------------	---------------------------------	--------------------

9.3 Color: greenish blue

9.4 Density: 0.99 to 1.02 g/cm³

9.5 Viscosity 25°C: 10,000 to 20,000 cPs

9.6 Odor: Pine

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

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:

Nome	Rota	Espécie	Valor
Product	Dermis	-	Estimated value LD50 > 5000 mg/Kg
Product	Ingestion	-	Estimated value LD50 > 5000 mg/Kg
Butyl glycol	Ingestion	Rat	LD50 = 1726 mg/Kg
Butyl glycol	Inhalation	Rat	LC50 = 2,2 mg/L
Caustic Soda (NaOH)	Ingestion	Rat	LD50 = 847 mg/Kg
Caustic Soda (NaOH)	Dermis	Rabbit	LD50 = 1350 mg/Kg

LD – Lethal dose

LC – Lethal dose

MATERIAL SAFETY DATA SHEET

Nr. Review: 01	Emission/Review date: 17/03/2020	Last review date: 22/05/2019	Code: FISPQ-SGQ-30
----------------	-------------------------------------	---------------------------------	--------------------

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: 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.

MATERIAL SAFETY DATA SHEET

Nr. Review: 01	Emission/Review date: 17/03/2020	Last review date: 22/05/2019	Code: FISPQ-SGQ-30
----------------	-------------------------------------	---------------------------------	--------------------

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. 25351.159591/2021-12, 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.

MATERIAL SAFETY DATA SHEET

Nr. Review: 01	Emission/Review date: 17/03/2020	Last review date: 22/05/2019	Code: FISPQ-SGQ-30
----------------	-------------------------------------	---------------------------------	--------------------

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.