

Bruckmann Solutions Pvt Ltd

VIROEND

Material Safety Data Sheet

Technical Department
April, 2020

Material Safety Data Sheet

According to International Standard ISO 11014:2009 (E)

VIROEND

Revision: Nil

Version 1

SECTION 1 - Chemical Product and Company Identification

1.1. Identification of the product Trade name: VIROEND

1.2. Product Form:
Mixture

1.3. Product Group:
Disinfectant

1.4. Relevant identified uses of the substance or mixture and uses advised against Identified uses: General Purpose Disinfectant

1.5. Main use category: Industrial use, Professional use

1.6. Uses advised against: Uses include against Viruses (including Corona, Avian Influenza, NewCastle, Gumboro), Bacteria (including hard to kill spore forming bacteria) Fungi, Yeast & Molds

1.7. Details of the supplier of the safety data sheet:
Bruckmann Solutions Pvt Ltd 213-A, L Block, Commercial Market, Model Town, Lahore, Pakistan.

1.8. Contact details: Bruckmann Solutions Pvt Ltd. 213-A, L Block, Commercial Market, Model Town, Lahore, Pakistan. 042-35166661, 03-111 247 476

SECTION 2 - Hazard Identification

2.1. Labelling according to OSHA 29 CFR 1910.1200

Flammable Liquids: Category 3 H226

Acute Toxicity (oral): Category 4 H302

Acute Toxicity (dermal): Category 4 H312

Acute Toxicity (inhalation: vapor): Category 4 H332

Skin Corrosion/Irritation: Category 1B H314

Respiratory Sensitization: Category 1 H334

Skin Sensitization: Category 1 H317

Hazard to the aquatic environment: Category 1 H400

Adverse physiochemical, human health & environmental effects: No information available

Hazard Pictogram GHS02, GHS05, GHS08, GHS09

Flammable liquid and vapor. Toxic to aquatic life. Wear protective gloves/protective clothing/eye and face protection while applying. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. If inhaled, remove to fresh air and keep in rest position for comfortable breathing. Call a doctor for further treatment. If swallowed, rinse the mouth and don't induce vomiting. If in eyes, rinse cautiously with water for several minutes and remove contact lenses if present.

SECTION 3 - Composition/Information on Ingredients

Ingredient(s)	CAS number	Weight percent
Quaternary Ammonium Compounds	68424-85-1	24 g/l
	7173-51-1	
Glutaraldehyde	111-30-8	10.5 g/l
Propan-2-ol	67-63-0	14.5 g/l
Pine Oil	NA	2 g/l

SECTION 4 - First Aid Measurement

4.1. Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact: Take off the contaminated clothing and wash immediately with plenty of water with soap/detergent.

Eye Contact: Rinse immediately and thoroughly with eye bath or water. Seek medical advice.

In case of Ingestion: If swallowed, rinse mouth. Do not induce vomiting. Seek medical advice if feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: May cause cough or allergy if inhaled.

Skin contact: May cause redness.

Eye contact: May cause redness or tears.

Ingestion: May cause cough or cramps.

Seek medical advice if you feel unwell.

SECTION 5 – Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media: Powder, Sand, Carbon Di Oxide, Water.

5.2. Special hazards arising from the substance or mixture

Fire Hazard: Flammable

Explosion hazard: May form flammable vapor-air mixture

5.3. Advice for firefighters

In case of fire, wear self-contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Absorb spillage to prevent material damage. Collect spillage. Do not handle until all safety precautions have been read and understood. No special measures required. Keep unprotected person away. Wear protective Equipment.

SECTION 7 – Handling and Storage

7.1. Precautions for safety handling

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Do not store with Edibles and other consumables. Do not mix with other products unless advised by Bruckmann Solutions.

7.2. Precaution for safe storage

Store in accordance with local and national regulations. Keep only in original container.

7.3. Specific end use(s)

No specific advice for end use available.

SECTION 8 – Exposure control/personal protection

Personal protective equipment

Eye/face protection: Safety glasses are normally required. However, their uses are recommended in those cases where splashes may occur when handling the product.

Hand protection: Wear gloves while using the product.

Body protection: Wear proper protective clothing while using the product.

Respiratory protection: No special requirement under normal use conditions.

Environmental exposure control: No special requirement under normal use conditions.

SECTION 9 – Physical and chemical properties

9.1. Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Physical state	Liquid
Color	Transparent
Odor	Light odor
Odor threshold	No data available
Solubility	Soluble in water
pH	5-6
Melting point	Not determined
Boiling point	Not determined
Flash point	Not determined
Flammability	Moderately Flammable
Relative Density	>0.95 at 20°C
Viscosity	Not determined

9.2. Other information

Corrosion to metals: Non corrosive

SECTION 10 – Stability and reactivity

10.1. Reactivity

May form flammable vapor-air mixture.

10.2. Chemical stability

Stable in the test system for the test duration.

10.3. Possibility of hazardous reactions

May form flammable vapor-air mixture.

10.4. Conditions to avoid

Flame. Heating. Protect from sun light.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Release of flammable gases.

SECTION 11 – Toxicological information

11.1. Information on toxicological effects

Mixture data

Relevant calculated ATE(s):

Substance data, where relevant and available, are listed below:

Acute toxicity

ATE CLP (oral)	500 mg/kg body weight
ATE CLP (dermal)	1100 mg/kg body weight
ATE CLP (vapors)	11 mg/l/4h
LD50 (oral) (Didecyldimethylammonium chloride)	238 mg/kg
LD50 (oral) (Glutaraldehyde)	77 mg/kg
LD50 (oral) (Propan-2-ol)	4700-5500 mg/kg
LD50 (oral) Quaternary Ammonium Compound	344 mg/kg
Germ Cell Mutagenicity	Not Classified
Carcinogenicity	Not Classified
Reproductive Toxicity	Not Classified
STOT- Single Exposure	Not Classified
STOT- Repeated Exposure	Not Classified
Aspiration Hazard	Not Classified

SECTION 12 – Ecological information

12.1. Toxicity

The product contains active surfactants so no issue of drainage in sewerage and it is according to local regulatory requirements.

SECTION 13 – Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products: The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to the sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

European List of Waste (LoW) Code: 07 06 01* aqueous washing liquid and mother liquors.

Empty packaging Recommendation: Dispose of observing national or local regulations.

Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14 – Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI/IATA-DGR)

14.1. **UN number:** Non-dangerous goods

14.2. **UN proper shipping name:** Non-dangerous goods

14.3. **Transport hazard class (es):** Non-dangerous goods

14.4. **Packing group:** Non-dangerous goods

14.5. **Environmental hazards:** Non-dangerous goods

14.6. **Special Precautions for user:** Non-dangerous goods

14.7. **Transport in bulk according to annex II of MARPOL 73/78 and the IBC Code:** The product is preferably not transported in bulk tankers.

SECTION 15 – Regulatory information

15.1. **Safety health and environmental regulations/legislation specific for the substance or mixture:** NA

15.2. **Chemical Safety assessment**

A chemical safety assessment has not been carried out on the mixture.

SECTION 16 – Other Information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.

SDS Code: MSDS-DI-01-04-202 **Version:** 01.0

Revision: Nil

Reason for revision: NA

Classification procedure

The classification of the mixture is in general based on calculation method using substance data, as required by Regulations (EC) No. 1271/2008. If for certain classification data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet.