

SAFETY DATA SHEET

EZOMED CORP – MSDS

SECTION 1**CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

| | |
|-------------------|--|
| Product Name | ARMOREL Concentrated |
| Active Ingredient | The HyperQuill™ molecule, being Cu π -Complex of quaternary ammonium compounds, benzyl C12-16 alkyl dimethyl, chlorides (5% in Water). |
| Chemical Name | Quaternary ammonium compounds, benzyl C12-16 alkyl dimethyl, chlorides / Copper π -Complex. |
| Product Use | For use in all industrial and institutional facilities including Hospitality, Catering, Food & Beverage Industry, Modes of Transport, Textile, Pulp and Pharmaceutical Industries and all other public and private institutions and industries requiring Professional grade, safe and highly effective disinfecting. Safe for use on Food-Contact surfaces. |
| Company | EZOMED Corp 7345 W Sand Lake Rd – Ste 210 – Orlando, FL 32819, USA. |

SECTION 2.1**HAZARDS IDENTIFICATION – Before Dilution (Product as-is)**

| | |
|------------------------|--|
| Most Important Hazards | Direct contact with liquid may be irritating to eyes. |
| Routes of Exposure | Eye, Skin, Inhalation, Ingestion. |
| Eye Contact | May cause irritation. |
| Skin Contact | No skin irritation recorded; however, it is better to wash hands after direct contact with concentrated Product. |
| Inhalation | Not a normal route of exposure. May cause respiratory tract irritation. |
| Ingestion | Not a normal route of exposure. May cause stomach distress. |

SECTION 2.2**HAZARDS IDENTIFICATION – After Dilution (5%, 2%, 1% dilution, or lower than 1% dilutions)**

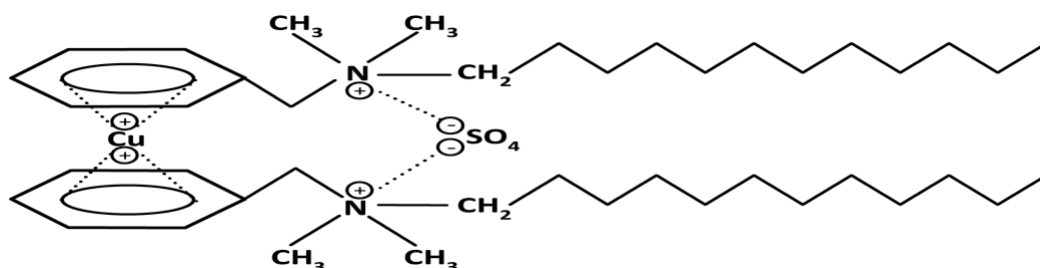
| | |
|------------------------|---|
| Most Important Hazards | Direct contact with liquid may be very slightly irritating to eyes. |
| Routes of Exposure | Eye, Skin, Inhalation, Ingestion. |
| Eye Contact | May cause very slight irritation. |
| Skin Contact | Diluted products are safe under normal use. No known hazards. |
| Inhalation | Not a normal route of exposure. May cause very slight respiratory tract irritation. |
| Ingestion | Not a normal route of exposure. May cause very slight stomach distress. |

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SECTION 3**COMPOSITION / INFORMATION ON ACTIVE INGREDIENTS**

| Active Ingredient | Designation | EC # | EPA # | CAS # |
|--|--|-----------|---------|------------|
| Quaternary ammonium compounds, benzyl C12-16 alkyl dimethyl, chlorides | BTC-50 E | 269-919-4 | 1839-27 | 68391-01-5 |
| Copper Sulfate, pentahydrate | CuSO ₄ · 5 H ₂ O | 616-477-9 | 56576-1 | 7758-99-8 |

**SECTION 4****FIRST AID MEASURES**

| | |
|--------------|--|
| Eye Contact | Check for and remove any contact lenses. In case of contact, immediately flush eyes with a copious amount of water for at least 5 minutes. Obtain medical attention. |
| Skin Contact | Diluted product is safe under normal use. No known hazards, however, in case of irritation from the concentrated product (before dilution), flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing and clean shoes before reuse. |
| Inhalation | In case of accident by inhalation: remove casualty to fresh air and keep at rest. |
| Ingestion | Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur. |

SECTION 5**FIRE FIGHTING MEASURES**

| | |
|--------------------------------------|---|
| Flammable | Neither Flammable nor Combustible. |
| Means of Extinction | SMALL FIRE: Suitable fire extinguishing media: Use DRY chemical powder. LARGE FIRE: Water spray, fog or foam. Do not use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations. |
| Combustion Products | Thermal decomposition products may include carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂), sulfur oxides, ammoniacal vapors, halogenated compounds. |
| Protective Equipment of Firefighters | Use personal protective equipment. Firefighters should wear full protective clothing including approved/certified self-contained breathing apparatus. |

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SECTION 6**ACCIDENTAL RELEASE MEASURES**

| | |
|---------------------------|---|
| Leak and Spill Procedures | Absorb with an inert material and put the spilled material in an appropriate waste disposal. Use a water rinse for final cleanup. |
| Personal Precautions | Wear suitable gloves and eye/face protection. |

SECTION 7**HANDLING AND STORAGE**

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|----------|---|
| Handling | Avoid contact with eyes, skin and clothing. |
| Storage | Keep out of reach of children. Keep containers tightly closed. Containers which are open to be carefully resealed and kept upright to prevent leakage. Storage Temperature: between 10°C and 50°C. |

SECTION 8**EXPOSURE CONTROL / PERSONAL PROTECTION**

| | |
|-------------------------------|---|
| Engineering Controls | General ventilation normally adequate. |
| Personal Protective Equipment | No special protective equipment required. However, it is recommended to wash hands after handling chemical products, before eating and the end of the working period. |

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

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|----------------------|---|
| Physical State | Avoid contact with eyes, skin and clothing. |
| Color and Appearance | Light Blue to Blue – Diluted product is uncolored to slightly light Blue. |
| Boiling Point | >100°C (around 102°C). |
| Freezing Point | <0°C (around -2°C). |
| pH | 7.5 ± 0.5. |
| Solubility in Water | 100% Soluble. |

SECTION 10**STABILITY AND REACTIVITY**

| | |
|-------------------------------------|--|
| Stability | Stable under recommended storage and handling conditions. |
| Incompatibility | Strong Acids, Strong Base and oxidizing agents. |
| Hazardous Decomposition by-Products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. However, under extreme conditions (like fire), decomposition products may include but not limited to: carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂), sulfur oxides, ammoniacal vapors, hydrogen chloride, halogenated compounds. |

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SECTION 11**TOXICOLOGICAL INFORMATION**

Effects of Acute Exposure

Eye contact: May cause irritation.
Ingestion: May cause stomach distress.

No known significant effects or critical hazards on Skin contact or Inhalation expected under normal use, however, for extreme conditions, the following effects may occur:
Inhalation: May cause respiratory tract irritation.

Effects of Chronic Exposure

Eye contact: May cause irritation.
Ingestion: May cause stomach distress, nausea or vomiting.

No known significant effects or critical hazards on Skin contact or Inhalation expected under normal use, however, for repeated or prolonged contact with spray mist, the following effects may occur: Inhalation: May cause respiratory tract irritation.

Irritancy of Product

No data available.

Skin Sensitization

The possibility of allergic sensitization should be considered when in contact with concentrated Product.

Respiratory Sensitization

The possibility of allergic sensitization should be considered.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive Toxicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Embryotoxicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Mammalian Toxicity

No mammalian toxicity.

SECTION 12**ECOLOGICAL INFORMATION**

Aquatic Toxicity

Slightly toxic to aquatic life. Diluted Product is not toxic to aquatic life.

SECTION 13**DISPOSAL CONSIDERATION**

Waste Disposal

Diluted product can be flushed to sanitary sewer with plenty of running water.
Discard empty container in trash.

SECTION 14**TRANSPORT INFORMATION**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling and markings are in compliance with the selected mode of transport.

The product is Not Regulated as Dangerous Goods for Land Transport, Sea Transport and Air Transport.

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SECTION 15

REGULATORY INFORMATION

Label Requirements EC Classification

Xi Irritant



Hazard Statements: R36/38 – Irritating to eyes.

Precautionary Statements:

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 – Wear suitable gloves.

Label Requirements National Fire Protection Association (NFPA)



Health (Blue)

1 – May be irritating.

Flammability (Red)

0 – Not Combustible.

Reactivity (Yellow)

0 – Stable (Not reactive when mixed with water).

Special Information key (White).

Label Requirements Hazardous Material Information System (HMIS)

| | |
|-----------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |

0 = Not Significant

1 = Slight

2 = Moderate

3 = High

4 = Extreme

* = Chronic

SECTION 16

OTHER INFORMATION

Date of issue: July 31, 2024 (Version 1.0).

The above information is believed to be correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as guidance for safe handling, use, storage, transportation and disposal and is not to be considered a Warranty or Quality Specification. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained for dealing with disinfectants. No warranty, express or implied, is made as to the completeness or continuing accuracy of this information.