



# Material Safety Data Sheet

## BIUQUAT<sup>®</sup> VM-75

### 1 Product identification

<u>Product name</u>	BIUQUAT <sup>®</sup> VM-75
<u>Manufacture</u>	Room 1138, 2th Building , LvdiHuichuang international square, NO.6, Kexing Road, Baiyun District, Guangzhou, Guangdong, China. Tel: 020-36261692 36261697 Fax: 020-36261697 Website: www.silat-group.com

### 2 Composition and ingredient information

<u>Chemical name</u>	2-Pyrrolidone, 1-ethenyl,polymer with N,N,N-trymethyl-3(2-methy-l-oxo-2-propenyl) amino-1-propanaminium chloride in water solution
<u>CAS</u>	131954-48-8

### 3 Possible hazard

<u>Hazard overview</u>	
Target Organs	Skin
Primary Entry Routers	Dermal-skin
Acute Health Hazards	Causes moderate skin irritation
Chronic Health Hazards	Unknown
<u>Eye contact</u>	Not a hazard under normal use conditions
<u>Skin contact</u>	Causes moderate skin irritation.
<u>Ingestion</u>	Not a hazard under normal use conditions
<u>Inhalation</u>	Not a hazard under use conditions

### 4 First aid measures

<u>Skin contact</u>	Wash off with soap and plenty of water
<u>Eye contact</u>	Flush with plenty of water for at least 15 minutes and seek medical advice if necessary
<u>Inhalation</u>	No specific treatment is needed since material is not likely to be hazardous by inhalation. If exposed to excessive levers of dust or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
<u>Ingestion</u>	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
<u>Other first aid information</u>	Not Known

### 5 Fire fighting measures

<u>Extinguishing media</u>	Water, carbon dioxide, foam, dry powder.
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<u>NFPA rating</u>	Health 2, Flammability 1, Reactivity 0
<u>Special fire fighting procedure</u>	Fire fighters should wear full protective clothing, including self-contained breathing equipment.
<u>Other recommendations</u>	No special precautions or measures necessary

## 6 Accidental release measures

<u>Personal precautions</u>	Use appropriate protective equipment
<u>Cleanup procedures</u>	Contain spill with sand or other inert materials.

## 7 Handling and Storage

<u>Handling precautions</u>	Avoid eye contact.
<u>Storage precautions</u>	Keep container tightly closed in a dry and well-ventilated place.
<u>Other information</u>	-

## 8 Exposure controls and personal protection

<u>8.1 Exposure controls</u>	See 7.1
<u>8.2 Engineering control measures</u>	Use in well ventilated area
<u>8.3 Personal protective equipment</u>	
Respiratory protection	Use in well ventilated area
Hand protection	For prolonged or repeated contact use protective gloves.
Skin protection	Protective cloth
Eye protection	Safety glasses
Other	-

## 9 Physical and chemical properties

<u>9.1 Appearance</u>	
Physical state	Viscous liquid
Color	Light yellow
Odor	Characteristic
<u>9.2 Safety related information</u>	
PH sol 1%	5-8
Density 20 °C	ca.1.08 kg/m <sup>3</sup>
Specific Gravity	1.09(water = 1)
Boiling Point(°F)	No data available
Melting Point(°F)	No data available
Solubility	Soluble in water

## 10 Stability and reactivity

<u>Chemical stability</u>	Stable under normal conditions of handling, use and transportation
<u>Hazardous polymerization</u>	Will not occur

<u>Conditions to avoid</u>	None anticipated
<u>Material to avoid</u>	Strong oxidizing agents. Strong reducing agents
<u>Hazardous decomposition products</u>	Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Hydrogen chloride. Smoke.

## 11 Toxicological information

<u>Acute toxicity</u>	LD <sub>50</sub> (oral, rat) > 5000mg/kg LD <sub>50</sub> (skin, rat) > 10000mg/kg
<u>Sensitization</u>	Human RIPT : Dermal sensitization was not induces
<u>Mutagenic</u>	Non-mutagenic
<u>Skin irritation</u>	Moderately irritating to rabbit skin
<u>Eye irritation</u>	Moderately irritating to rabbit eye
<u>Other Information</u>	Phototoxicity : non phototoxic irradiated and non irradiated Photoallergy : not induce contact dermal photoallergy

## 12 Environmental information

<u>Aquatic toxicity</u>	Rainbow trout, 96 hr, LC50 : 23.81 mg/l(20%active product)
<u>Persistence and degradability</u>	Not determined
<u>Bioaccumulative potential</u>	Not determined
<u>Ecological toxicity</u>	Not determined
<u>Other information</u>	—

## 13 Disposal considerations

Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected

## 14 Transport information

Not classified as hazardous under transport regulations.

## 15 Regulatory information

<u>Supply classification and labeling</u>	No special packaging and labeling required
<u>National legislation</u>	For further information we recommend to consider the corresponding appropriate national legislation.

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