

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** BIUQUAT® LM-602  
**Product characterization:** POLYQUATERNIUM-6  
**Company profile:** BIOPHIL Srl  
Via Archimede, 13 - 20041 Agrate Brianza (MI)-ITALY  
**Emergency Telephone:** BIOPHIL Srl  
Tel 0039-039-6890312/6892207 fax 0039-039-6892246

## 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

**Components:** Diallyl dimethyl ammonium chloride /Acrylic acid  
**CAS:** 26062-79-3

## 3. HAZARDS IDENTIFICATION

### Hazard Overview

**Target Organs:** Skin  
**Primary Entry Routes:** Dermal-skin  
**Acute Health Hazards:** Causes moderate skin irritation  
**Chronic Health Hazards:** Unknown  
**Eye contact:** Not a hazard under normal use conditions  
**Skin Contact:** Causes moderate skin irritation.  
**Ingestion:** Not a hazard under normal use conditions  
**Inhalation:** Not a hazard under use conditions

## 4. FIRST AID MEASURES

**Eye contact:** Flush eyes copious amounts of water  
**Skin contact:** Immediately wash with soap and water. Remove contaminated clothing. Get medical attention if symptoms occur.  
**Ingestion:** 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.  
**Inhalation:** No specific treatment is needed since material is not likely to be hazardous by inhalation. If exposed to excessive levels of dust or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

## 5. FIRE FIGHTING MEASURES

**NFPA Rating:** Health 2, Flammability 1, Reactivity 0  
**Flash point(°F):** N,A  
**Special Protective Equipment**  
Fire fighters should wear full protective clothing, including self-contained breathing equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures:** Use appropriate protective equipment  
**Procedure for Cleaning-Absorption:** Contain spill with sand or other inert materials

## 7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use in well ventilated area
Respiratory Protection:	Use in well ventilated area
Hand Protection:	All cleanable impervious glove types are acceptable
Eye Protection:	Safely glasses

## 8. PHYSICAL AND CHEMICAL PROPERTIES

### Aspect

Physical State:	Viscous liquid
Color:	Light yellow
Odor:	Characteristic
PH sol 2%	5-7.5
Density 20 °C :	ca.1.09 kg/m <sup>3</sup>
Boiling Point(°F):	n,d.
Melting Point(°F):	n,d.
Solubility:	Soluble in water

## 10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of handling, use and transportation
Hazardous Polymeration:	Will not occur
Conditions to Avoid:	None anticipated
Material to Avoid:	Strong oxidizing agents. Strong reducing agents
Hazardous Decomposition Products :	Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Hydrogen chloride. Smoke.

## 11. TOXICOLOGICAL INFORMATION

### Toxicity Test

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

## 12. ECOLOGICAL INFORMATION

<b>Biodegradability:</b>	Not determined
<b>Aquatic Toxicity:</b>	Rainbow trout, 96 hr, LC50: 23.81 mg/1(20%active product)

## 13. DISPOSAL CONSIDERATION

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 bay location and the type of disposal selected

## 14. TRANSPORT INFORMATION

Land Transportation

DOT(No Bulk): NOT REGULATED

UN/NA Number: NONE

Hazard Class: NONE

Dot(Bulk):

DOT Shipping Name: NOT REGULATED

UN/NA Number: NONE

Hazard Class: NONE

Air Transportation(IATA):

Proper Shipping Name: NOT REGULATED

UN Number: NONE

Hazard Classification: NONE

Sea Transportation(INO):

Proper Shipping Name: NOT REGULATED

UN/ID Number: NONE

Hazard Classification: NONE

TDG(Canada):

Proper Shipping Name: NOT REGULATED

Hazard Class: NONE

**15. REGULATORY INFORMATION**

**TSCA Inventory List** – This product and/or its components is not listed on TSCA

**California Proposition 65**

Carcinogens & Reproductive Toxicity (CTR) List – None of the components of this product is listed on CALPROP

WHMIS Ingredient Disclosure List – None of the components of this product is listed on WHMIS Ingredient

Disclosure List –

Canada DSL Inventory List - This product and /or its components is not listed on DSL

Canada NDSL Inventory List- This product and /or its components is not listed on ENCS

**Japan Inventory of Existing**

**& New Chemical Substances (ENCS)**- This product and /or its components is not listed on ENCS

Australia Inventory of Chemical Substances (AICS)List - This product and /or its components is listed on AICS

**EU EINECS List** - This product and /or its components is not listed on or is exempt from EINECS

**EU EINECS List** - This product and /or its components is not listed on ELICS

**16. OTHER INFORMATION**

This safety data sheet should be used in conjunction with technical data sheet. it does not replace them. The information given is based on our knowledge of this product, at the date of updating. it is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose. Other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required the product. This safety data sheet annul and replace every pervious edition.