



Blue Lotus Chem

WE PROMISE, WE

SAFETY DATA SHEET

Product Name

BLUBIO 510

SECTION 1 IDENTIFICATION

PRODUCT NAME: BLUBIO 510

CHEMICAL NAME/ FAMILY: Aldehyde and Quaternary Ammonium Chloride mixture

RECOMMENDED USE: Microbiocide


RESTRICTIONS ON USE: Industrial Use Only

C.A.S. NUMBER: Mixture

S.D.S. EFFECTIVE DATE: 2/7/2020

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Blue Lotus Chem LLC

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Information Department: R&D

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SECTION 1 HAZARD IDENTIFICATION

Mixture Classification:

Acute Toxicity – Oral	Category 4
Acute Toxicity – Inhalation	Category 4
Skin Corrosion/Irritation	Category 2
Eye Corrosion/Irritation	Category 1
Skin Sensitization	Category 1
Respiratory Sensitization	Category 1
Specific Target Organ Toxicity – Single Exposure	Category 3

GHS Symbols:



Signal Word
Danger

Safety Data sheet

H-Phrases

H302 – Harmful if swallowed.

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

H317 – May cause an allergic skin reaction.

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 – May cause respiratory irritation.

P-phrases

Prevention

P264 – Wash thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P271 – Use only outdoors or in a well-ventilated area.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P284 – In case of inadequate ventilation wear respiratory protection.

Response

P301+312 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 – Rinse mouth.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P333+313 – If skin irritation or rash occurs: Get medical advice/attention.

P362+364 – Take off contaminated clothing and wash it before reuse.

P304+340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+311 – If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P305+351+338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTER/doctor.

Storage

P403+233 – Store in a well-ventilated place. Keep container tightly closed.

P405 – Store locked up.

Disposal

P501 – Dispose of contents/container to an approved local waste handler in accordance with local/state/federal law.

SECTION 3 COMPOSITION and INFORMATION on INGREDIENTS

<u>Component</u>	<u>C.A.S. #</u>	<u>%</u>
Quaternary ammonium compounds, benzyl-c12-16 alkyldimethyl, chlorides	68424-85-1	10-14.99
glutaral	111-30-8	5-9.99
ethanol; ethyl alcohol	64-17-5	1-4.99

SECTION 4 FIRST AID MEASURES

EYE CONTACT:	As a precaution, remove contact lenses and flush immediately with plenty of water for at least 30 minutes. Seek medical attention immediately.
SKIN CONTACT:	Wash thoroughly with soap and large amounts of running water for 30 minutes. Remove contaminated clothing. Seek medical attention immediately.
INHALATION:	Remove victim to fresh air. Seek immediate medical attention immediately.
INGESTION:	Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Most important symptoms/effects:

Harmful if swallowed. Fatal if inhaled. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Note to Physician:

Treat symptomatically. Chemical eye burns may require extended irrigation.

SECTION 5 FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:	Not Flammable
UNUSUAL FIRE AND EXPLOSION:	Decomposition will release toxic gases and vapor.
EXTINGUISHING MEDIA:	Water mist, Carbon Dioxide CO ₂ , dry chemical or alcohol foam. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after the fire is out. Stay away from ends of containers.
SPECIAL PROTECTIVE EQUIPMENT OR PRECAUTIONS FOR FIREFIGHTERS:	Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire-exposed containers cool.
HAZARDOUS COMBUSTION PRODUCTS	Carbon oxides, ammonia, hydrogen chloride

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT AND PRECAUTIONS:	Use appropriate personal protective equipment. Refer to Section 8. Avoid contact with skin, eyes, and clothing. Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
ENVIRONMENTAL PRECAUTIONS:	Do not allow material to enter public drainage systems or waterways.
CONTAINMENT AND CLEAN-UP MEASURES:	Dike spill if possible to contain. Remove all ignition sources. Soak up balance with sand or dirt. Place into properly labeled containers for disposal.

SECTION 7**HANDLING and STORAGE PROCEDURES****PRECAUTIONARY HANDLING:**

Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Do not get this material on clothing. Use only outdoors or in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

STORAGE:

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. These solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel or reinforced epoxy-plastic equipment. Store locked up. Avoid freezing or excessive heat. Keep at temperature not exceeding 38 °C. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

CONDITIONS TO AVOID:

Excessive Heat. Contact with Incompatibles.

SECTION 8**EXPOSURE CONTROL and PERSONAL PROTECTION****Occupation Exposure Limits:**

<u>MATERIAL</u>	<u>CAS #</u>	<u>REGULATORY LIST</u>	<u>TYPE</u>	<u>VALUE</u>
glutaral	111-30-8	U.S. ACGIH	Ceiling	0.05ppm
		U.S. NIOSH	Ceiling	0.2ppm (0.8 mg/m3)
ethanol; ethyl alcohol	64-17-5	U.S. ACGIH	STEL	1000 ppm, 0 times per shift, 15 min
		U.S. NIOSH	TWA	1000 ppm, 0 times per shift, 8 hours

ENGINEERING CONTROLS:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

RESPIRATORY PROTECTION:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998.
Respirator Type: Air-purifying with organic vapor and acid mist cartridge.

EYE PROTECTION:

Use goggles and face shield.

SKIN PROTECTION:

Wear chemical-resistant gloves, footwear and protective clothing appropriate for the risk of exposure.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

Appearance (Form and Color)	Clear Colorless to Light Amber Liquid	Explosive Limit Ranges	Not Available
Odor	Aldehyde-like	Vapor Pressure@68°F	Not Available
Odor Threshold	Not Available	Vapor Density	Not Available
pH, 5% in 3:1 IPA:Water	3.5	Relative Density	Not Available
Melting/Freezing Point	<0C	Solubility	Water soluble
Boiling Point/Range	Not Available	Partition Coefficient	Not Available
Flash Point	>100C/>212F	Auto-ignition Temperature	Not Available
Evaporation Rate	1.7	Decomposition Temperature	Not Available
Flammability (Solid, Gas)	Not Applicable	Viscosity@ 40°C	Not Available
Density	8.395 lb/gal	Pour Point	Not Available

SECTION 10 STABILITY and REACTIVITY

Stability:	Stable under normal conditions of use and storage.
Conditions to Avoid:	Keep away from excessive heat, sparks, open flames, other ignition sources and incompatible materials.
Incompatible Materials:	Oxidizing agents. Amines
Hazardous Polymerization:	Will not occur under normal conditions.
Thermal Decomposition:	May occur at elevated temperatures.
Hazardous Decomposition Products	Carbon oxides, ammonia, hydrogen chloride

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Eyes:	Causes eye burns.
Skin:	Causes skin irritation. May cause allergic skin reaction.
Ingestion:	May cause abdominal pain, vomiting, nausea, and diarrhea. Harmful if swallowed. Causes digestive tract burns.
Inhalation:	Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause burns to respiratory tract if inhaled.

CHRONIC TOXICITY:

Chronic Effects:	Prolonged inhalation may be harmful.
Sensitization:	May cause sensitization by skin contact and if inhaled.
Carcinogenicity:	No effect known based upon available data.

TOXICITY DATA

No data available.

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity:

Product is toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Persistence and Degradability:

Product is expected to be biodegradable.

Bioaccumulative Potential:

No information available.

Mobility in Soil:

No information available.

Other Adverse Effects:

No information available.

SECTION 13

DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse empty container with water. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

SECTION 14

TRANSPORTATION INFORMATION

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT (USA)

..... DOT Not Regulated

IMDG (International Maritime Dangerous Goods)

..... DOT Not Regulated

ICAO (International Civil Aviation Organization)/IATA (International Air Transport Association)

..... DOT Not Regulated

SECTION 15

REGULATORY INFORMATION

Notice:

The following information is presented in good faith and is believed to be accurate, as of the revised date shown above. No warranty is therefore, expressed or implied. Regulatory information requirements are subject to change as governmental regulations change.

SARA 313: Methanol

Carcinogenicity Classification: (components present at 0.1% or more): None

TSCA (US Toxic Substances Control Act): All components in this product are listed on or exempt from TSCA.

SECTION 16

OTHER INFORMATION

SARA 311-312 Hazard Classification(s): Acute Hazard, Chronic Hazard

Health (NFPA) 3
Health (HMIS)..... 3
Flammability..... 1
Physical Hazard: 0

This Safety Data Sheet conforms to the requirements of ANSI Z400.1, using the International Chemical Safety Cards of the Global Harmonizing System.

This Safety Data Sheet complies with 29 CFR 1910.1200 (Hazard Communication Standard)

IMPORTANT: Read this SDS before handling & disposing of this product. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

Effective Date/Date of Last Revision: February 8th, 2018
Version Number: 4

DISCLAIMER: *Blue Lotus Chem, L.L.C. provides this information in good faith, specific to the designated material and accurate to the best of their knowledge. However, they make no guarantees about its accuracy or completeness. Users are responsible for ensuring its suitability, and Blue Lotus Chem, L.L.C. is not liable for any loss or damage from its use, nor do they offer a warranty against patent infringement.*

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