

MATERIAL SAFETY DATA SHEET



BIOXYNE

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1. PRODUCT AND COMPANY IDENTIFICATION

- **Product Trade Name:** BIOXYNE
- **Code:** 888-BIOXYN1
- **Recommended Use:** Cosmetic
- **Supplier:** SETHIC
68 Boulevard du Port Royal, 75005 Paris, FRANCE
TEL : +33 (1) 73 79 28 04 / +33 (1) 77 72 94 92
www.sethic.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

- **Substance / Preparation:** Substance
- **INCI Name:** QUATERNIUM-73
- **CHINA INCI (2010):** YES
- **CHINA IECIC 2015:** YES
- **CAS#:** 15763-48-1
- **EINECS#:** 239-852-5
- **Chemical Name:** 3-heptyl-2-[(3-heptyl-4-methyl-3H-thiazol-2-ylidene)methyl]-4-methylthiazolium iodide
- **Component and Purity:** Not less than 99.0% ^{modified}
- **Chemical formula and structure:** $C_{23}H_{39}IN_2S_2$

CN(C)C(=C1CN(C)CS1)C2=CN(C)CS2.[I-]
- **PRTR regulation:** Not applied to the specified chemical substances

3. HAZARDS IDENTIFICATION

- **Gclassification according to Regulation (EG) No. 1272/2008 ICLPI:** Acute Tox. 4 (Oral) H302
Full text of H-phrases: see section 16
- **Classification according to Directive 67/548/EEC or 1999/45/EC:** Xn; R22
Full text of R-phrases: see section 16
- **Adverse physicochemical, human health and environmental effects:** No additional information available

4. FIRST-AID MEASURES

- **General:** If the person feels unwell; place the victim in the recovery position
- **Ingestion:** Rinse mouth. Never give anything by mouth to an unconscious person. Get medical advice/attention.
- **Inhalation:** Remove person to uncontaminated area. Obtain medical attention if breathing difficulty persists.
- **Skin Contact:** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell.
- **Eye Contact:** In case of contact with eyes, rinse immediately with plenty of water and seek

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medical advice.

5. FIRE FIGHTING MEASURES

- **Extinguishing media:** Carbon dioxide (CO₂). Powder. Bank fires with firefighting foam.
- **Fire hazard:** Under fire conditions, hazardous fumes will be present carbon oxides (CO and CO₂).
- **Reactivity:** Light sensitive.
- **Precautionary measures fire:** Exercise caution when fighting any chemical fire.
- **Firefighting instructions:** Clear the danger area
- **Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Do not breathe fumes from fires or vapors from decomposition.
- **Other information:** Large amounts of the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

6. ACCIDENTAL RELEASE MEASURES

- **General measures:** Ventilate area. Avoid creating or spreading dust
- **Emergency procedures:** Evacuate area.
- **Protective equipment:** Wear suitable protective clothing, gloves and eye or face protection. Where excessive dust may result, wear approved mask.
- **Environmental precautions:** DO not discharge into drains or the environment
- **Methods for cleaning up:** Collect spills and put it into appropriated container. Wash away remainder with plenty of water.
- **Other information:** Use suitable disposal containers.

7. HANDLING AND STORAGE

- **Additional hazards when processed:** Local exhaust is needed at source of dust. Use personal protective equipment as required.
- **Precautions for safe handling:** Do not get in eyes, on skin, or on clothing Avoid all unnecessary exposure. Handle carefully Do not breathe dust.
- **Hygiene measures:** Take off immediately all contaminated clothing. Do no eat, drink or smoke when using this product. Wash hands and other exposed areas with soap and water before leaving work.
- **Technical measures:** Provide adequate ventilation to minimize dust concentrations.
- **Storage conditions:** Keep in a cool, well-ventilated place away from moisture. Avoid the build-up of electrostatic charge.
- **Storage area:** Store in a dark area.
- **Special rules on packaging:** Store in tightly closed packings.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Hand protection:** Wear suitable gloves resistant to chemical penetration. Neoprene or nitrile rubber gloves.
- **Eye protection:** Wear tight fitting safety glasses or facial screen
- **Skin and body protection:** Wear suitable protective clothing. In case of repeated or prolonged exposure : Fully enclosed impervious protective suit with integral or tight-fitting gloves, boots, self-contained or supplied air resoiator must be worn
- **Respiratory protection:** Where excessive dust may result, use approved respiratory protection equipment. DusUaerosol mask with filter type P3.
- **Other information:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Physical State**
 - **Appearance:** Crystalline Powder
 - **Color:** Yellowish to yellow
 - **Odor:** Odourless
- **Molecular Weight:** 534.60 g/mol
- **Odour threshold:** No data available
- **pH:** No data available
- **Melting point:** 224 – 228 °C
- **Freezing point:** No data available
- **Boiling point:** No data available
- **Flash point:** No data available
- **Relative evaporation rate (butylacetate=1):** No data available
- **Flammability (solid, gas):** No data available
- **Explosive limits:** No data available
- **Vapour pressure:** No data available
- **Relative vapour density at 20 °C:** No data available
- **Solubility:** 0.0003g/100mL water (25 °C)
- **Log Pow:** No data available
- **Log Kow:** No data available
- **Self ignition temperature:** No data available
- **Decomposition temperature:** No data available
- **Viscosity, kinematic:** No data available
- **Viscosity, dynamic:** No data available
- **Explosive properties:** No data available
- **Oxidising properties:** No data available

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10. STABILITY AND REACTIVITY

- **Reactivity:** Light sensitive
- **Chemical stability:** Stable under normal conditions of use.
- **Possibility of hazardous reactions:** No additional information available
- **Conditions to avoid:** Heat, Actinic light
- **Incompatible materials:** No additional information available
- **Hazardous decomposition products:** Carbon and sulfur oxides CO_x/SO_x. Nitrogen oxides. Lodized compounds

11. TOXICOLOGICAL INFORMATION

- **Acute toxicity:** Harmful if swallowed. Substance not yet tested completely.
- **QUATERNIUM73:**
 - **LD50oral ra1** 460 mg/kg (RTECS)
 - **ATE (oral)** 460 mg/kg
- **Skin corrosion/irritation:** Not classified. May produce skin irritation.
- **Serious eye damage/initiation:** Not classified, Dust from this product may cause eye irritation.
- **Respiratory or skin sensitisation:** Not classified
- **Germ cell mutagenicity:** Not classified
- **Carcinogenicity:** Not classified
- **Reproductive toxicity:** Not classified
- **Specific target organ toxicity (single exposure):** Not classified
- **Specific target organ toxicity (repeated exposure):** Not classified
- **Aspiration hazard:** Not classified

12. ECOLOGICAL INFORMATION

- **Ecology - general:** This material has not been tested for environmental effects.
- **Persistence and degradability:** No additional information available
- **Bioaccumulative potential:** No additional information available
- **Mobility in soil:** No additional information available
- **Results of PBT and vPvB assessment:** No additional information available
- **Other adverse effects:** No additional information available

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13. DISPOSAL CONSIDERATIONS

- **Regional legislation (waste):** Dispose in a safe manner in accordance with local/national regulations.
- **Waste treatment methods:** Dispose of this material and its container at hazardous or special waste collection point. Do not discharge into drains or the environment.
- **Sewage disposal recommendations:** Recover the cleaning water, eliminate towards an approved center.

14. TRANSPORT INFORMATION

- **Land-Road/Railway:** This product is not classified according to ADR/RID
 - **Inland Waterways:** This product is not classified according to ADNR
 - **Sea:** This product is not classified according to IMDG
 - **Air:** This product is not classified according to IATA
- This product not classified as **dangerous good**.

15. REGULATORY INFORMATION

- **EU-Regulations:** No REACH Annex XVII restrictions
- **National regulations:** No additional information available
- **Chemical safety assessment:** No additional information available

16. OTHER INFORMATION

- **Acute TOx4(oral):** Acute toxicity (oral) Category 4
- **H302:** Harmful if swallowed
- **R22:** Harmful if swallowed
- **Xn:** Harmful

"The information provided in this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and is, in our opinion consistent with the state of general scientific and technical knowledge at that date, but we cannot accept liability for a loss, injury or damage which may result from its use.

In compiling the MSDS we have taken into account all proper application of the material of which we are aware and any user of the material should consult us before applying it to any novel or unusual use.