



1. DESCRIPTION

Trade Name: BIOCIDE

Chemical Name: BIOCIDE, BACTERICIDE

Application: BACTERICIDE, Mud Preservative

Supplier: TEAM Chemicals

Telephone: +44 (0)207 408 7700 - +98 912 3717539

Address: No. 43, Souri St., 43 Ashrafi Esfahani Expressway

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

Chemical name	CAS-No	Content
Bactericide	-	60-100%

3. HAZARD IDENTIFICATION

Potential Acute Health Effects:

Harmful if swallowed.

May cause sensitization by skin contact

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: No

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition

Irritant YES

Flammable NO

Carcinogenic NO

Oxidant NO

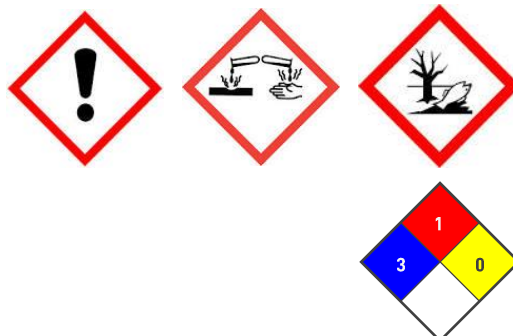
Explosive NO

Environmental Hazard YES

Corrosive YES

(Risk-Phrases) -

(Safety-Phrases) -





4. FIRST AID MEASURES

Eye Contact: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. May cause permanent eye injury.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops.

Inhalation: Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues. Get medical attention.

Ingestion: DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA Water spray, foam, dry powder or carbon dioxide.

FIRE FIGHTING Use water to keep fire exposed containers cool and disperse vapors

FIRE/EXPLOSION HAZARD By fire, toxic gases may be formed (CO_x, NO_x). and Formaldehyde

PERSONAL PROTECTION Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Small Spill:

Dike far ahead of larger spills for later disposal. Absorb spillage with suitable absorbent material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Flush area with plenty of water.

Large Spill:

Dike far ahead of larger spills for later disposal. Absorb spillage with suitable absorbent material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Flush area with plenty of water.

7. HANDLING AND STORAGE

HANDLING Precautions: his material is corrosive. For personal protection see section 8. Do not handle material near food, feed or drinking water. Shower or bathe at the end of working. Further information on storage conditions: CONTAINERS MAY BE HAZARDOUS WHEN EMPTY

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

Chemical Name	TWA	STEL	Peak
Sodium Hydroxide	-	-	2mg/m ³

PERSONAL PROTECTION Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact. Provide eyewash station and safety shower.

RESPIRATOR If ventilation is insufficient, suitable respiratory protection must be provided. Gas cartridge suitable for organic substances.

HAND/EYE PROTECTION Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

HAND/FEET Protective gloves should be used if there is a risk of direct contact or splash. PVC gloves are recommended.

ENGINEERING CONTROLS Use local exhaust ventilation with a minimum capture velocity of 150 ft/min. (0.75 m/sec.) at the point of dust or mist evolution. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state and appearance: Colorless to pale yellow

Odor: Mild, inoffensive odor

pH: >4

Boiling Point: ca.100 °C (212.00 °F)

Melting/Freezing Point: -21.00 °C (-5.80 °F)

Flash Point: > 70° C

Volatility: -

Specific Gravity: 0.95-1.1

Solubility: Completely soluble



10. STABILITY & REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Avoid excessive heat for prolonged periods of time.

Materials to Avoid: Oxidizing materials. Strong acids. In contact with acids emits formaldehyde.

Special Remarks on Reactivity: Hazardous Decomposition Products are Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride,

Special Remarks on Corrosivity: Corrosive

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (LD50): LD50 rat female 2,630 mg/kg LD50 rat male 3,350 mg/kg

Carcinogenicity: Carcinogenicity: Non-carcinogenic in both a mouse dermal and rat oral carcinogenicity study.

Toxicity to Reproduction: This product is not a reproductive hazard.

Teratogenicity: Did not show teratogenic effects in animal experiments.

Mutagenicity: Non-mutagenic

Eye Contact: Spray and vapor in the eyes may cause irritation and smarting.

Skin Contact: May cause sensitization by skin contact. Prolonged or repeated contact may lead to irritation and dermatitis.

Inhalation: Gas or vapor may irritate respiratory system.

Ingestion: Harmful if swallowed. May cause stomach pain or vomiting.

Irritating to eyes. Repeated exposure may cause chronic eye irritation

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

ECOLOGICAL INFORMATION: Contact TEAM Environmental Affairs for ecological data.



13. DISPOSAL CONSIDERATION

DISPOSAL METHODS:

When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste with the characteristic of corrosivity. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT Classification: Corrosive liquid

15. REGULATORY INFORMATION

Classification: Not Flammable material

Toxicity: refer to section 11 and 12.

Poisons Schedule (SUSMP): None allocated.

This material is listed on the international standard such as OHSAS 18001:2007.

16. ADDITIONAL INFORMATION

Reason(s) for Issue:

3 Yearly Revised Primary MSDS

Update in Toxicological Information

Update in Ecological Information

This MSDS summaries to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. TEAM Chemicals cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.