

KENCIDE BC10

SECTION 1: Identification

1.1 GHS Product identifier

Product name KENCIDE BC10

1.2 Other means of identification

Product number KBC10

Other names N/A

1.3 Recommended use of the chemical and restrictions on use

Identified uses Chemicals.

Uses advised against Biocidal product for industrial use

1.4 Supplier's details

Company Activa International
Address Activa International. 10th of Ramadan City, Cairo, Egypt.

Telephone +20 1012777180
E-mail info@activa.com.eg

1.5 Emergency phone number

Emergency phone number Egypt; +20 1012777180
Service hours Sunday to Thursday, 8 am – 5 pm (Cairo Local Time).

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

• **Classification according to Regulation (EC) No 1272/2008 respectively UN GHS**

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Classification system:

The classification of hazardous components in section 3 as toxic by inhalation does not affect the classification of the mixture as there is no risk of inhalation due to the mixture's physical state and the components' low vapor pressure. The classification considers all relevant hazards that might occur at the expected use (CLP-Regulation, chapter 1).

2.2 GHS label elements, including precautionary statements.

• **Labelling according to Regulation (EC) No 1272/2008 respectively UN GHS**

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Pictogram(s)



Signal word

Hazard statement(s)

DANGER

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage.

2.3 Other hazards which do not result in classification.

no data available

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Common names and synonyms	CAS number	Concentration
2-bromo-2-nitropropane-1,3-diol	Bronopol	52-51-7	9 – 10 %
reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one and 2-methyl-2H-isothiazol-3-one	CMIT/MIT (3:1)	55965-84-9	1.4 – 1.6 %

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled.

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms/effects, acute and delayed

- Skin reactions like itching, reddening, blistering may appear after hours.
- Corrosive damage to gastro-intestinal tract.
- Information for doctor: Probable mucosal damage may contraindicate the use of gastric lavage.
- Danger of gastric perforation.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Immediate first aid: Ensure that adequate decontamination has been carried out. If the patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. Poisons A and B.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Specific hazards arising from the chemical.

In case of fire, toxic incineration products may be released such as: Nitrogen oxides (NO_x), Carbon monoxide (CO), Bromine compounds such as HBr, Br₂, Hydrogen chloride (HCl), Sulphur dioxide (SO₂)

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Avoid dust formation. Avoid breathing mist, gas, or vapors. Avoid contact with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water. Prevent from spreading (e. g. by enclosing with a ring of chemical absorbent). Inform authorities in case of contamination of water or sewage system.

6.3 Methods and materials for containment and cleaning up.

Collect large amounts in suitable containers. Cover the rest with absorbent, mix intensively and collect mechanically.

Suitable binder: multi-purpose absorbent.

Dispose of contaminated material as waste according to item 13.

Polluted surfaces can be decontaminated with a solution containing 5% sodium bisulphite and 5% sodium bicarbonate.

In case of a spill drained to the sewer collect contaminated water in suitable container and add 10% sodium bisulfite solution.

Contact the supplier for further instructions.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibility.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

No data available

Biological limit values

No data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).



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Skin protection

Wear fire/flammable resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Liquid
Color	Clear to yellowish
Odor	no data available
Boiling point	100 °C
Flammability	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH @25 °C	3 – 5.5
Density @25 °C	1.065 ± 0.01 kg/l
Solubility	Fully miscible with water
Relative vapor density	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Corrosive action on metals possible.

10.2 Chemical stability

Before handling, the product should not be diluted or mixed with other chemicals, in order to avoid any negative influences on the ingredient(s). Minimum shelf life: 18 months from production date, if stored at a temperature of about 20 °C.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Alkalis, Reducing agents, Strong oxidizing agents, Nucleophiles.

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10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

Acute toxicity

Oral: LD50 Rat oral 1665 mg/kg

Inhalation: (ATE NOBEL) 4.7 mg/l, 4h (calculated)

Dermal: LD50 > 2000 mg/kg (rat)

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

SECTION 12: Ecological information

12.1 Toxicity

- Toxicity to fish: EC50 - Danio rerio (previous name: Brachydanio rerio) - > 0.2 mg/L - 96 h.
- Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - ca. 29.1 mg/L - 48 h.
Remarks: Test substance in Elendt M7 medium.
- Toxicity to algae: EC50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) - > 7.92 mg/L - 96 h.
- Toxicity to microorganisms: EC50 - activated sludge - > 43 mg/L - 3 h.

12.2 Persistence and degradability

OECD 302 B Zahn-Wellens Test 100 % (Activated Sludge) (OECD 302 B – substance removal (HPLC), completely eliminated by biodegradation - S 2387.

OECD 303 A: Activated Sludge Units > 80 % (Activated Sludge) (OECD 303 A) rapid biodegradable, bridging from S 199.

12.3 Bio-accumulative potential

Bioconcentration factor BCF = 3.16 (calculated) EPIWIN, OECD 107 Log Kow (shake flask method) = 0.22 (n-Octanol/water) (OECD 107) S 3658



12.4 Mobility in soil

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03 00	off-specification batches and unused products
16 03 05*	organic wastes containing hazardous substances
HP 14	Ecotoxic

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1 UN Number

UN3265

14.2 UN Proper Shipping Name

ADR/RID: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]), ENVIRONMENTALLY HAZARDOUS

IMDG: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]), MARINE POLLUTANT

IATA: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6])

14.3 Transport hazard class(es)

ADR/RID: 8 (C3) Corrosive substances.
IMDG: 8 Corrosive substances.
IATA: 8 Corrosive substances.



14.4 Packing group, if applicable

ADR/RID, IMDG, IATA: II

14.5 Environmental hazards

Marine pollutant: Yes

Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user

Warning: Corrosive substances.

· Kemler Number: 80

· EMS Number: F-A,S-B

· Segregation groups Acids

· Stowage Category B

· Stowage Code SW2 Clear of living quarters.

14.7 Transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS)	Listed.
EC Inventory	Listed.
United States Toxic Substances Control Act (TSCA) Inventory	Listed.
China Catalog of Hazardous chemicals 2015	Not Listed.
New Zealand Inventory of Chemicals (NZIoC)	Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Listed.
Vietnam National Chemical Inventory	Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Listed.
Korea Existing Chemicals List (KECL)	Listed.

SECTION 16: Other information

Information on revision

Creation Date

July 01, 2023

Revision Date

July 01, 2023

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association

- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

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