

Section 1. Product And Company Identification

Product name: **BETAGARD 5080**
Manufacture: PT. BETA PRAMESTI ASIA
Address: Jl. Matraman Raya No. 169 Jakarta Timur

Emergency Telephone Number: (021) 8580838
Fax Number: (021) 8381270

Generic Description: Prevention and control of organic growths in recirculating water systems
Physical Form: Solid
Color: White granular or tablet

Section 2. Hazards Identification

Classification of the Substance or Mixture:

Skin Corrosion - Category 1
Serious Eye Damage - Category 1
Corrosive to Metals - Category 1
Oxidizing Solids - Category 3
Acute Toxicity - Oral Category 4
Acute Toxicity - Inhalation Category 4



Hazard Statements:

Causes severe skin burns and eye damage
May be corrosive to metals
May intensify fire; oxidizer; Harmful if swallowed; Harmful if inhaled

Precautionary Statements:

Prevention

Keep away from heat/sparks/open flames/hot surfaces - No smoking.
Keep/Store away from clothing/combustible materials.
Take any precaution to avoid mixing with combustibles.
Wash hands thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection.
Keep only in original container.
Do not eat, drink or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapors/spray.

Section 3. Composition/ Information On Ingredients

	CAS NO:	PROPORTION
1-bromo-3-choro-5,5-dimethylhydantion	16079-88-2	60-100%

Section 4. First Aid Measures

Inhalation	Remove victim to fresh air. If irritation persists, contact physician. Never give anything by mouth to and unconscious person.
Ingestion	feed gruel, cooked cereal or bread soaked in milk followed by olive oil. Immediately contact physician
Skin	wash with plenty of soap and water. Seek immediate medical advice.
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

Most Important Symptoms and Effects, both Acute and Delayed:

Contact with skin/eyes can cause irritation or severe burns and scarring with greater exposures. Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness. Indication of any immediate medical attention and special treatment needed: Treat symptomatically

Section 5. Fire Fighting Measures

Extinguishing Media:

Use water spray, powder, foam, carbon dioxide.

Special hazards arising from the substance of mixture:

Product is non-combustible. On decomposition releases oxygen which may intensify fire.

Flammability classification (OSHA 29 CFR 1910.106) (Hazcom 2012):

Non flammable

Hazardous Combustion Products:

Non combustible

Special protective equipment and precautions for firefighters:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Methods and materials for containment and cleaning up:

Carefully vacuum/sweep material into a designated PLASTIC waste container. Collect in plastic containers only.

Special spill response procedures:

Collect spills in plastic containers only

Section 7. Handling and Storage

Precautions for Safe Handling:

Wear at least chemical resistant gloves and eye protection, face shield, and chemical resistant garments when handling, moving or using this product. Do not contaminate water, food, or feed by storage or disposal.

Conditions for Safe Storage:

Keep product in tightly closed container when not in use. Do not drop, roll, or skid drum. Store in a cool, dry, well-ventilated area away from heat or open flame.

Incompatible Materials:

Reactive with acids, reducing agents, amines and combustible materials

Section 8. Exposure Controls/ Personal Protection

Appropriate Engineering Controls:

Use only in well-ventilated areas. Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

Individual Protection Measures:

Eye Protection: Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection:

Wear protective clothing to minimize skin contact. When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek®.

Contaminated clothing should be removed and laundered before reuse.

Hand Protection: Wear appropriate chemical resistant gloves. Consult a glove manufacturer for assistance in selecting an appropriate chemical resistant glove.

Protective Material Types: Butyl rubber, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC), Tyvek®. Respiratory Protection: A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. The added protection of a full face piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. Acid gas cartridges with N95 filters are required when fumes or vapor may be generated. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

Section 9. Physical and Chemical Properties

Melting Point	Not applicable - Decomposes
Boiling Point	Not Allocated
pH (1% solution)	2.7 – 3.3
Vapors Pressure	Negligible
Appearance	White granule Faint halogen odors.
Flash Point	Not Allocated
Flammability	keep away from heat, sparks or naked flames.

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	OXIDIZING material. Forms explosive mixtures with combustible, organic other easily combustible materials.
Flammable Limits LEL	Not Allocated
Other Information	Solubility in water..... 0.2% @25°C/77°F
	Solubility in benzene..... 2.5% @25°C/77°F

Section 10. Stability and Reactivity

Hazardous Reaction

STRONG OXIDIZING AGENT!!! Mix only with water. Use clean dry utensils. Do not add this product o any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction with generation of heat, liberation hazardous gases and possible gyration of fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well-ventilated area. Flood with large volumes of water, if necessary.

Hazardous Decomposition Products

Thermal decomposition products may yield the following:

- hydrogen bromide-bromide gas-hydrogen chloride

Hazardous polymerization

Product will not undergo polymerization.

Incompatibility

Avoid contact with the following:

- bases-oxidizing agents-organic chemicals

Section 11. Toxicological Information

Toxicological Information	Acute Data Oral LD50 - rat:929 mg/kg Skin irritation - rabbit: severe irritation, may be corrosive. Mutagenicity Data Ames Mutagenicity: Negative Sensitivity Data Sensitization - human: Possible skin sensitization.
Inhalation	Inhalation of dust may result in respiratory irritation. May cause irritation to the throat and lungs. May cause shortness of breath - headache - nausea.
Ingestion	moderately toxic. May cause irritation to mouth, throat and stomach. May cause damage to the mucous membranes.
Skin	Contact with skin may result irritation. Prolonged or repeated exposure may cause skin sensitization. Can cause superficial burns after prolonged contact. Contact with MOIST skin will cause the following; - severe skin burns.
Eye	A severe eye irritant. Permanent eye damage, including loss of sight, may occur.
Chronic Effects	No data supplied

Section 12. Ecological Information

Environment Protection

This biocide is toxic to fish. DO NOT discharge into lakes, streams, ponds, public water; unless in accordance with NPDES permit. For guidance, contact your Regional Office of the EPA. DO NOT contaminate water by cleaning of container and equipment or disposal of wastes. Apply this biocide only as specified on this label.

Environmental Toxicity;

Bobwhite quail, Dietry LC50: >5620 ppm

Bobwhite quail, Oral LD50: 1839mg/kg

Mallard duck, Dietry LC50: >5620 ppm

Rainbow trout (*Salmo gairdneri*), 96 hour LC50 Static: 0.4mg/l

Daphnia magna, 48 hour LC50: 0.7mg/l

All results are based on a nominal concentration of active ingredient.

Section 13. Disposal Considerations

Disposal:	Waste from material: Use or reuse if possible. This material is a registered pesticide. Dispose in accordance with all applicable regulations. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. DO NOT transport wet or damp material. Damp material should be neutralized to a non-oxidizing state. Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
Container disposal:	See product label for container disposal information. May be subject to disposal regulations.

Section 14. Transport Information

U.N. Number	1479
Proper Shipping Name	OXIDIZING SOLID, N.O.S.
DG Class	5.1
Hazchem Code	1Y
Packaging Method	5.9.5.1
Packing Group	II
Storage and Transport	Keep containers closed at all times. Store in a cool, dry place. Store away from sources of heat or ignition. The minimum storage temperature for this material is 20°C/90°F The maximum storage temperature for this material is 32°C/90°F
EPG Number	5B1
IERG Number	31

Section 15. Regulatory Information

Safety, health and environmental

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir.

99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP), Regulation (CE) n.790/2009. Where applicable, refer to the following regulatory Provisions.

Section 16. Other Information

References: Not available.

Other Special Considerations: Not available

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This SDS cancels and replaces any preceding release.