

MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification :

Brand name & code : CM 606
Company Identification : **PT Crystal Anugerah Abadi**
Green Sedayu Bizpark,
Jl.Daan Mogot KM 18, DM9/31
Jakarta Barat 11840
Telephone : +622122952523
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CPL Classification:

2. Composition / information on ingredients :

Component	CAS	% by wt.	Exposure guidelines
N – alkyl dimethyl benzyl ammonium chloride	008424-85-1	< 80 %	Not directly applicable

3. Hazards Identification:

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive), of eye contact (corrosive). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or .Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE].

The substance may be toxic to kidneys, liver, heart, gastrointestinal tract, cardiovascular system, central nervous system (CNS).Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis.

Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage

Potential Health Effects:

Skin - Prolonged contact result in irritation.

Eyes - Eye contact may result in conjunctivitis, seen as excess redness and marked swelling of conjunctiva with profuse discharge. Permanent damage may occur

Inhalation – Direct Vapor is irritating to the respiratory tract, causing stinging sensation in the nose and throat, discharge from throat coughing, discomfort and difficulty in breathing, and headache..

Ingestion - May cause moderate to marked irritation.May irritate the gastrointestinal systems.may cause severe allergic reactions

This might result in discomfort or pain in the chest.

Chronic effects - Excessive exposure may cause liver, kidney, gastrointestinal and nervous system disorder.

4. First Aid Measures:

Spray of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to

give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Notes to Physician :

Depending on the severity of the exposure, disorders of skin, eyes, respiratory system and central nervous system may be aggravated.

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water

5. Fire Fighting Measures: -

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: OPEN CUP: 250°C (482°F).

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat.

6. Accidental Release Measures :

Personnel precautions – Use personnel protective equipment, breathing apparatus required only in fire situation.

Environmental precautions – Eliminate all ignition sources, use absorbent materials to contain spill and prevent material from entering soil and waterways.

7. Handling and storage :

Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Store separate from oxidizing materials.

Handling precautions – All the personal protective equipments should be worn while handling.

Storage conditions – Avoid extremes of temperature. Keep it in a dry place.

- 8. Exposure controls / personnel protection :-**
Personal protective equipment :-
Eye protection – Wear chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent)
Skin & body protection – Where splashing is possible, fully chemical resistant protective light weight clothing (chemical resistant apron) and safety boots are required.
Respiratory protection – No personal respiratory protective equipment normally required and protection PVC oil / chemical resistant gloves are recommended
- 9. Physical and chemical properties :-**
Boiling point :>103 Deg. C.
Odor : typical sweet amine odour
Sp.Gravity : 1.01-1.15
Appearance :Clear colourless to light pale yellow liquid.
Solubility :-freely soluble in water
pH as is : 6.5-8.5
- 10. Stability and reactivity :-**
Stability / incompatibility – Stable at ambient temperature
Materials to avoid – Avoid contact with reactive chemicals.mineral acids
Hazardous de-composition products – Might generate carbon dioxide at very high temperatures.
- 11. Toxicity Information :**
LD50 (rat, oral): Not determined
Oral: LD 50 Acute for 100%active 240 mg/kg Rat
Dermal:
Acute irritation: The eye and skin irritation of BKC is concentration dependant; undiluted materials are usually moderate to severe skin and eye irritants, whereas 1% aqueous solutions are mildly irritating and 0.1% aqueous solutions are usually not irritating
- 12. Ecological information :**
This is a preparation and environmental assessment is based on component data and that of similar products.
Environmental Ecotoxicity: Expected to be harmful to aquatic organisms
mobility – This preparation is water-soluble & is expected to remain primarily in water.
- 13. Disposal considerations :-**
Waste disposal – Dispose off according to local, state and federal requirement. This product will generate ash if burned and can be burned directly in appropriate equipment.
- 14. Transport information :-**
Hazard Class – Corrosive liquid,acidic , organic ,n.o.s.
UN number: 3265
IMDG Class: class 8 (Subrisk 6.1)
IMDG Packing group: III
- 15. Regulatory information :-**
Classification/ symbol: Corrosive liquid ,
- 16. Other information :-**
Recommended use –Broad spectrum non oxidizing biocide quaternary base.
For water treatment use.