

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

BRANDNAME : CM 63

COMPANY : PT CRYSTAL ANUGERAH ABADI

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DEPARTMENT FOR INFORMATION : MARKETING DEPARTMENT EMERGENCY

CONTACT NUMBER

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2. INFORMATION ON COMPOSITION

Stabilized chlorine base oxidizing biocide compound

2.1 The product is composed of the following important ingredients :

Stabilized Chlorine compound

2.2 Characterization of important component according to 2.1 :

	CAS-No.	EINECS-No.	EC-No.	WARNING SIGNS	R-PHRASES
(a)	7681-52-9				
(b)	1310-73-2				

3. HAZARD IDENTIFICATION

TOXIC, CORROSIVE

3.1 Eye Contact : Corrosive. Will cause eye burns and permanent tissue damage

3.2 Skin Contact : May cause severe irritation or tissue damage depending on the length of exposure and the type of first aid administer

3.3 Ingestion : Corrosive, causes burns to gastro-intestinal tract. Nausea, vomiting and stomach pain may occur. In severe cases blood may be vomited

3.4 Inhalation : Corrosive to respiratory system

ENVIRONMENTAL HAZARDS :

Toxic to aquatic organisms

4. FIRST AID MEASURES

4.1 Eye Contact : Prompt action is essential in case of contact. Immediately flush eye with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention immediately.

4.2 Skin Contact : Removing contaminated clothing. Wash off affected area immediately with plenty of water. For a large splash, flood body under a shower. Get immediate medical attention. Contaminated clothing, shoes and leather goods must be discarded or cleaned before re-use

4.4 Ingestion : Do NOT induce vomiting. If conscious, washout mouth and give a lot of water to drink. Get immediate medical attention.

4.5 Inhalation : Remove to fresh air. Get medical attention.

5. FIRE FIGHTING MEASUREMENT

FLASHPOINT : Not flammable

FIRE EXTINGUISHING MEDIA

Not expected to burn. Use extinguishing media appropriate for surrounding fire

FIRE AND EXPLOSION HAZARD

Not flammable or combustible. Contact with reactive metal (Eq. Aluminium) may result in the generation of flammable hydrogen gas. May evolve toxic gases or fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING

In case of fire, wear a full face positive-pressure self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURE**PERSONAL PRECAUTIONS**

Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it safe to do so. Ventilate spill ares if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spill material. Have emergency equipment (for fire, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP

SMALL SPILLS: Soak up spill with absorbent material. Place residues in suitable, covered, properly labeled container. Wash affected area.

LARGE SPILL : Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material.

LAND SPILL

Keep public and other shipping traffic away

ENVIRONMENTAL PROCAUTIONS

Harmful to aquatic organisms. Do not contaminated surface water.

7. STORAGE AND HANDLING**HANDLING:**

Do not get in eyes, on skin ,on clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosol and mists. Keep container closed when not in use. Have emergency equipment (for fire, spills, leaks, etc.) readily available. Ensure all containers are labeled.

STORAGE CONDITION:

Store in suitable labeled containers. Store the contains tightly closed. Store separately with acids. Storage condition should be under 15°C

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**8.1 Engineering Measure**

General ventilation is recommended. Use local exhaust ventilation if necessary to control airborne mist and vapor

8.2 Respiratory Protection:

If significant mists, vapor or aerosol are generated and approved respirator is recommended. An organic vapor cartridge with dust/mist pre-filter or supplied air may be used. In event emergency or planned entry into unknown concentration a positive pressure, full face piece SCBA should be used.

If respiratory protection is required, institute a complete respiratory protection program including selection, fit, testing, training, maintenance and inspection.

8.3 Hand Protection

PVC gloves, nitrile gloves, neoprene gloves, rubber gloves

8.4 Skin Protection

Wear chemical resistant apron, chemical splash goggles, impervious gloves and boots. A full slicker suit is recommended if gross exposure is possible

8.5 Eye Protection

Wear a face shield with chemical splash goggles

8.6 Hygiene recommendation

Eye wash station/safety shower are necessary. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : at 20°C liquid

Color : Colorless to light yellow

Odor : Chlorine like (slight)

9.1 Specific Gravity (at 20°C) : 1.25 ± 0.02

9.2 Freezing Point : -5 °C

9.3 Water solubility : soluble in every proportion

9.4 pH value (at 20°C.) : 12.0 ± 0.5 (as 1 % solution)

9.5 Flash point : not applicable

9.6 Ignition point : not applicable

9.7 Explosion limits : not applicable

9.9 Thermal decomposition : by release toxic vapour

9.8 Further data : -

10. STABILITY AND REACTIVITY**STABILITY**

Slowly decomposes. If the temperature increase to 40°C, there are formation of Cl₂.

CONDITION TO AVOID

Heat and light which can accelerate decomposition

MATERIAL TO AVOID

Contact with organic material (e.g. rags, sawdust, hydrocarbon oils or solvents) and reducing agents (e.g. hydrazine, sulfite, sulfide, aluminium or which can generate heat, fire magnesium dust) which can generate heat, fire and release of toxic fumes.

11. TOXICOLOGICAL INFORMATION**ACCUTE TOXICITY DATA**

No toxicity studies on this product have been conducted on this product

SENSITIZATION

This product is not expected to be sensitizer

12. ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL EFFECTS**

No toxicity studies have been conducted on this product.

13. DISPOSAL CONSIDERATIONS

Disposal in accordance with local, state and federal regulations. Hazardous waste must be transported by a licensed hazardous waste transporter and disposed of or treated in a properly licensed hazardous waste treatment, storage, disposal or recycling facility. Consult local, state and federal regulation for specific requirements.

Triple rinse (or equivalent) all containers and offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other procedure approved by state and local authorities.

14. TRANSPORT REGULATIONS

The information in this sections is for reference only and should not take the place of a shipping paper specific to an order. Please note that the proper Shipping name/Hazard Class may vary by packaging, properties and mode of transportation. Typical Proper Shipping Names for this product are:

Land Transport:

Proper Shipping Name	: Hypochlorite Solution
UN/ID No	: UN 1791
HazardClass-primary	8
Packing Group	III
Hazchem Code	: 2X

Air Transport (ICAO/IATA)

Proper Shipping Name	: Hypochlorite Solution
UN/ID No	: UN 1791
HazardClass-primary	8
Packing Group	III
IATA Cargo Packing Instruction	821
IATA Cargo Aircraft Limit	: 60L
IATA Passenger Packing Instruction	: Y819/819
IATA Passenger Aircraft Limit	: 1L/ 5L

Marine Transport:

Proper Shipping Name	: Hypochlorite Solution
UN/ID No	: UN 1791
HazardClass-primary	8
Packing Group	III
EmS-Nr.	: 8-08

15. REGULATORY INFORMATION

National Regulations,
Government Regulation No. 19/1994 On the treatment of Dangerous and Toxic Waste (and amendment) as applicable.

16. OTHER INFORMATIONS

This product material safety data sheet provides health and safety information. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that so that appropriate handling practices and training programs can be established to insure safe workplace operations.

other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.