

MATERIAL SAFETY DATA SHEET

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CM8860

REVISION DATE:

PRINT DATE : 31/01/2019

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product name : CM 8860

Company : PT. CRYSTAL ANUGERAH ABADI
Green Sedayu Bizpark, DM 9/31
Jl. Daan Mogot KM18, Jakarta Barat - 11840

Telephone number : +62 (21) 22952523 **Fax** : +62 (21) 29725467

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation : Cationic polymer in solution

3. HAZARDS IDENTIFICATION

Spills produce extremely slippery surfaces.

4. FIRST AID MEASURES

Inhalation : Move to fresh air.

Skin contact : Wash with water and soap as a precaution. In case of persistent skin irritation, consult a physician.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

Ingestion : The product is not considered toxic based on studies on laboratory animals.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water, water spray, foam, carbon dioxide (CO₂), dry powder.

Special fire-fighting precautions : Spills produce extremely slippery surfaces.

Special protective equipment for Firefighters : No special protective equipment required.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions : No special precautions required.

Environmental precautions : Do not contaminate water.

Methods for cleaning up : Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling : Avoid contact with skin, eyes and clothing. When preparing the working solution ensure there is adequate ventilation. Do not breath vapours or spray mist. When using do not smoke.

Storage : Keep in a dry, cool place (0 - 30°C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure : Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Personal protection equipment

- *Respiratory protection :* In case of insufficient ventilation wear suitable respiratory equipment.
- *Hand protection :* Rubber gloves.
- *Eye protection :* Safety glasses with side-shields. Do not wear contact lenses.
- *Skin and body protection :* Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

Hygiene measures : Wash hands and face before breaks and at end of workday. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Colour : amber

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<i>Odour</i>	: slight
<i>pH</i>	: 5.5 ± 2.0
<i>Melting point (°C)</i>	: Not applicable
<i>Flash point (°C)</i>	: > 100°C
<i>Autoignition temperature (°C)</i>	: > 200°C
<i>Specific Gravity</i>	: 1.10 ± 0.1
<i>Water solubility</i>	: Completely miscible
<i>Viscosity (cps)</i>	: 800 ± 300

10. STABILITY AND REACTIVITY

<i>Stability :</i>	Product is stable, no hazardous polymerisation will occur.
<i>Materials to avoid :</i>	Oxidizing agents may cause exothermic reactions.
<i>Hazardous decomposition products :</i>	No decomposition if stored and applied as directed. Burning of the dried material can produce : hydrogen chloride gas, nitrogen oxides (NO _x), carbon oxides.

11. TOXICOLOGICAL INFORMATION

<i>Acute toxicity</i>	
- <i>Oral</i>	: LD50/oral/rat > 2000 mg/kg
- <i>Dermal</i>	: The product is not considered toxic based on studies on laboratory animals.
- <i>Inhalation</i>	: The product is not expected to be toxic by inhalation.
<i>Irritation</i>	
- <i>Skin</i>	: May cause skin irritation with susceptible persons.
- <i>Eyes</i>	: Testing conducted on rabbits showed minor transient irritation which cleared within days.
<i>Sensitization</i>	: The products is not expected to be sensitizing.
<i>Chronic toxicity</i>	: NOEL / Oral / rat / 90-day = 5000 mg/kg Two-year feeding studies on rats and dogs did not reveal any adverse health effects.
<i>Other information</i>	: Not mutagenic in AMES Test. Not mutagenic in micronucleus test on mice. Not teratogenic, NOEL = 175 mg/kg

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12. ECOLOGICAL INFORMATION

Ecotoxicity

The aquatic toxicity is highly mitigated by the presence of dissolved organic carbon in the water. Results obtained using the US EPA "Dirty Water" test show that irreversible adsorption onto suspended matter and dissolved organics (such as humic and other organic acid) present in natural waters, reduces the toxicity to aquatic organisms by a factor of over 10.

Environmental fate

The product is rapidly eliminated from the aquatic medium through irreversible adsorption onto suspended matter and dissolved organics.

- *Bioaccumulation* : The product is not expected to bioaccumulate.

Persistence / degradability : No data available.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : In accordance with local and national regulations.

Contaminated packaging : Rinse empty containers with water and use the rinse water to prepare the working solution. Can be land filled or incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION

Remarks : Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

This products is not a hazardous article and need to be labelled according to EC-Directives as amended.

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Inventory status :

EINECS (Europe) : Existing polymer according to the definition in the 7th Amendment to Directive 67/548/EEC. All starting materials and additives are listed in EINECS.

TSCA (USA) : Complies with all applicable rules or orders under TSCA.

DSL (Canada) : All components listed on inventory.

AICS (Australia) : All components listed on inventory.

MITI (Japan) : All components listed on inventory.

ECL (Korea) : All components listed on inventory.

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct in the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.