MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

DWT 8050

Supplier :

Delta Chemical Corp
P O Box 7430
Metairie, LA

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation : Cationic water-soluble polymer in emulsion.

3. HAZARDS IDENTIFICATION

Aqueous solutions or powders that become wet render surfaces extremely slippery

4. FIRST AID MEASURES

Inhalation : Move to fresh air.

Skin contact : Wash off immediately with soap and plenty of water. 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 (CO_2), dry powder

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

Protective equipment for firefighters : No special protective equipment required.

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 spilled 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 and eyes. When preparing the working solution ensure there is adequate ventilation. 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 controls : 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 protection :*** Chemical resistant apron or protective suit if splashing or contact with solution is likely.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form :	viscous liquid
Color :	milky
Odor :	aliphatic
pH :	4 - 9 @ 5 g/l for product series. See Technical Bulletin for specific value.
Flash point (°C) :	Does not flash
Autoignition temperature (°C) :	Does not ignite
Vapour pressure (mm Hg) :	0.13 @ 20°C
Bulk density :	See Technical Bulletin
Water solubility :	See Technical Bulletin

Viscosity (mPa s) : See Technical Bulletin

10. STABILITY AND REACTIVITY

Stability : Product is stable. No hazardous polymerization will occur..
Oxidizing agents may cause exothermic reactions.

Hazardous decomposition products : Thermal decomposition may produce : hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides (COx).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

- Oral : LD50/oral/rat > 5000 mg/kg

- Dermal : The results of testing on rabbits showed this material to be non-toxic even at high dose levels.

- Inhalation : The product is not expected to be toxic by inhalation.

Irritation

- Skin : May cause skin irritation with suseptible persons.

- Eyes : May cause eye irritation with susceptible persons

Sensitization : The results of testing on guinea pigs showed this material to be non-sensitizing.

Chronic toxicity : A two-year feeding study on rats did not reveal adverse health effects. A one-year feeding study on dogs did not reveal adverse health effects. Prolonged skin contact may defat the skin and produce dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

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

- Fish LC50/Danio rerio/96 hr > 10 - 100 mg/L (OECD 203)(Based on the toxicity of the components using the Conventional Method.)
LC50/Fathead minnows/96h > 10 mg/L (OECD 203)

- Algae : Algal inhibition tests are not appropriate. The flocculating characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

- Daphnia : EC50/Daphnia magna/48 hr > 50 mg/L (OECD 202)(Based on the toxicity of the components using the Conventional Method.)

Environmental fate:

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 acids) present in natural waters, reduces the toxicity to aquatic organisms by a factor of over 10

Bioaccumulation : No bioaccumulate

Persistence / degradability : Inherent biodegradability (Zahn-Wellens test)

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : In accordance with federal, state and local regulations.

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

14. TRANSPORT INFORMATION

Not regulated by DOT, IATA, IMDG.

15. REGULATORY INFORMATION

All components of this product are on the TSCA and DSL inventories.

RCRA status : Not a hazardous waste.

Hazardous waste number : Not applicable

Reportable quantity (40 CFR 302) : Not applicable

Threshold planning quantity (40 CFR 355) Not applicable

California Proposition 65 information : *The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986:* This product contains a chemical(s) known to the State of California to cause cancer : residual Acrylamide