

Storage:

Store in a dry, cool and well ventilated place.
The recommended storage temperature is 5-30°C.

Disposal:

Dispose in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Identification:

Anionic polymer in solution.

Regulated Components:

None.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. No hazards which require special first aid measures.

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: Rinse mouth. Do not induce vomiting without medical advice Call a physician

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water. Water spray. Foam. Carbon dioxide (CO₂). Dry powder.

Unsuitable extinguishing media: None.

Precautions: Spills produce extremely slippery surfaces.

Special protective equipment for firefighters: No special protective equipment required. Wear self contained breathing apparatus for fire fighting if necessary.

Specific methods: Keep personnel removed and upwind of fire.

Specific hazards: In the event of fire the following can be released: Carbon Oxides. Nitrogen Oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep people away from spill/leak. Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Environmental precautions: As with all chemical products, do not flush into surface 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 and eyes. Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Storage: Keep in a cool, dry place (0 - 35 °C). Freezing will affect the physical condition and may damage the material.

Technical measures/ Precautions: No special precautions required.

Incompatible products: None.

Technical measures/ Storage conditions: No special storage conditions required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

None.

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

Personal protective equipment:

Respiratory protection: Not required ; except in case of aerosol formation.

Hand protection: Impervious gloves

Eye protection: Safety glasses with side-shields. Do not wear contact lenses where this product is used.

Skin and body protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless to slightly yellowish
Odor:	Slight
pH:	2.5 - 5
Specific Gravity:	1.0 - 1.3 g/cm ³ @ 20°C
Melting point/ range (°C):	< 0
Flash point (°C):	Does not flash.
Boiling point (°C):	100
Autoignition temperature (°C):	Does not ignite.
Vapor pressure (mm Hg):	2.3 kPa @ 20°C
Viscosity (mPa.s):	See Technical Bulletin
Water solubility:	Completely miscible with water
LogPow:	~0

10. STABILITY AND REACTIVITY

Conditions to avoid: Avoid extremes of temperature. Protect from light, moisture and damage.

Stability: Stable. Hazardous polymerisation does not occur.

Materials to avoid: None.

Hazardous decomposition products: Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x).

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity:

Oral: LD50/oral/rat > 5000 mg/kg (Estimated)

Dermal: LD50/dermal/rat > 5000 mg/kg (Estimated)

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

Irritation:

Skin: By analogy with similar products, this product is not expected to be irritating

Eyes: By analogy with similar products, this product is not expected to be irritating

Sensitization: By analogy with similar products, this product is not expected to be sensitizing.

Mutagenicity: Not mutagenic.

Carcinogenicity: Not carcinogenic.

Reproductive effects: Not toxic for reproduction.

Chronic toxicity: No chronic effects.

12. ECOLOGICAL INFORMATION

Product Information

Aquatic toxicity:

Toxicity to fish: LC50/Fish/96 hours > 100 mg/L (Estimated)

Toxicity to daphnia: EC50/Daphnia/48 hours > 100 mg/L (Estimated)

Toxicity to algae: IC50/Algae/72 hours > 100 mg/L (Estimated)

Environmental fate:

Persistence and degradability: Not readily biodegradable.

Hydrolysis: Does not hydrolyse.

Bioaccumulation: The product is not expected to bioaccumulate.

LogPow: ~0

LogKow: Not determined.

13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging: Rinse empty containers with water and use the rinse water to prepare the working solution. Dispose in accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR/ RID:

Not classified as dangerous in the meaning of ADR/RID regulations.

IMDG/ IMO:

Not classified as dangerous in the meaning of IMO /IMDG regulations.

ICAO/ IATA:

Not classified as dangerous in the meaning of ICAO /IATA regulations.

15. REGULATORY INFORMATION

International Inventories:

Australia (AICS): All components of this product are either listed on the inventory or are exempt from listing.

Canada (DSL): All components of this product are either listed on the inventory or are exempt from listing.

China (IE CSC): All components of this product are either listed on the inventory or are exempt from listing.

European Union (REACH): All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.

Japan (ENCS): All components of this product are either listed on the inventory or are exempt from listing.

Korea (ECL): All components of this product are either listed on the inventory or are exempt from listing.

Philippines (PICCS): All components of this product are either listed on the inventory or are exempt from listing.

USA (TSCA): All components of this product are either listed on the inventory or are exempt from listing.

Taiwan (CSNN): All components of this product are either listed on the inventory or are exempt from listing.

New Zealand (NZIoC): All components of this product are either listed on the inventory or are exempt from listing.

16. OTHER INFORMATION

Revision Number: 14.01.a

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This MSDS was prepared in accordance with the Globally Harmonized System (GHS), Annex 4.

End of Safety Data Sheet.