



WATER TREATMENT SERVICES

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WTSWW-542CE

SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: **WTSWW-542CE**

CHEMICAL DESCRIPTION: Cationic water-soluble polymer in emulsion

PRODUCT CLASS: Specialty

VERSION: 2-18-15

SECTION 2: INFORMATION ON INGREDIENTS:

Chemical Name	CAS #	Weight %	Hazard Classification	Risk Phrases
Adipic Acid	124-04-9	<2	None	None

SECTION 3: HAZARDS IDENTIFICATION

*****EMERGENCY OVERVIEW*****

Spills produce extremely slippery surfaces.

Caution- may cause irritation with prolonged contact.

Do not get in eyes, on skin, or on clothing. Do not take internally. Wear suitable protective clothing. Keep container tightly closed. Flush affected area with water. Protect product from freezing.

Appearance and Odor

Form: Viscous liquid

Color: Milky

Odor: Aliphatic

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids to ensure complete rinsing. Seek medical aid if irritation occurs.

SKIN CONTACT: In case of contact, remove contaminated clothing and wash the affected area thoroughly with plenty of soap and water. Seek medical attention if symptoms develop.

INGESTION: In case of ingestion, do not induce vomiting without medical advice. If victim is conscious and alert, washout mouth and give water to drink. If symptoms develop, seek medical advice. Never give anything by mouth to an unconscious person.

INHALATION: Remove victim to fresh air. If breathing stops, give artificial respiration. If breathing is difficult, have a trained medical person give oxygen. Seek medical aid if any breathing difficulties or irritation occurs.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: Does not flash.

LOWER FLAMMABLE LIMIT: Not applicable

UPPER FLAMMABLE LIMIT: Not applicable

AUTO-IGNITION TEMPERATURE: Does not ignite.

EXTINGUISHING MEDIA: Carbon dioxide (CO₂). Foam. Dry powder. Water. Water spray.

FIRE-FIGHTING INSTRUCTIONS: No special protective equipment required. Spills produce extremely slippery surfaces.

FIRE & EXPLOSION HAZARDS: Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: No special precautions required. Wear adequate personal protective equipment. Keep people away from spill/leak.

ENVIRONMENTAL PRECAUTIONS: As with all chemical products, do not flush into surface water.

METHODS FOR CLEAN-UP: Do not flush with water. Dam up and soak up with inert absorbent material. If liquid has 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.

SECTION 7: HANDLING AND STORAGE

HANDLING:

Avoid inhalation. When preparing the working solution ensure there is adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of workday.

STORAGE:

Store in a tightly sealed container. Keep in a dry place (0-30°C). Keep away from sources of ignition. Freezing will affect the physical condition and may damage the material.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

Adipic Acid

ACGIH: TWA: 5mg/m³

EYE/FACE PROTECTION: Chemical splash goggles

SKIN PROTECTION: PVC or other plastic material gloves and chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

RESPIRATORY PROTECTION: Respiratory protection is not normally needed. If significant mists, vapors, or aerosols are generated, an approved respirator is recommended. An organic vapor cartridge with dust/mist pre-filter may be used. In event of an emergency or planned entry into unknown concentrations, a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, and maintenance and inspection.

ENGINEERING CONTROLS: Use local exhaust if misting occurs. General ventilation is adequate in the absence of mists.

HYGIENE RECOMMENDATIONS: An eye wash station and safety shower should be available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Wash hands before breaks and at the end of workday.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

pH (100%): 4-6

SOLUBILITY IN WATER: See technical bulletin.

VAPOR PRESSURE: Not available

VAPOR DENSITY (air=1): Not available

VOLATILE ORGANIC CARBON (VOC) CONTENT: 0.00%, EPA Method 24

EVAPORATION RATE: Not applicable

APPROXIMATE BULK DENSITY: 1.04

KINEMATIC VISCOSITY @ 40°C (mm²/s): >>20.5

BULK VISCOSITY (cps): 1200

APPEARANCE AND ODOR: Milky white viscous liquid. Aliphatic.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Freezing temperatures and incompatibles.

INCOMPATIBILITY: Oxidizing agents may cause exothermic reactions.

DECOMPOSITION PRODUCTS: Thermal decomposition may produce hydrogen chloride gas, nitrogen oxides (NOx) and carbon oxides (COx).

SECTION 11: TOXOLOGICAL INFORMATION

ACUTE TOXICITY:

Skin: LD50/dermal/ rat > 5000mg/kg.

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

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

CHRONIC TOXICITY: No chronic effects.

IRRITATION:

Skin: Slightly irritating.

Eyes: May cause slight irritation.

SENSITIZATION: Non sensitizing

CARCINOGENIC EFFECTS: No data

RTECS DATA: no data

MUTAGENIC EFFECTS: no data

TERATOGENIC EFFECTS: no data

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

Toxicity to fish: LC50 / fish / 96 hours=10-100 mg/L (OECD 203).

Toxicity to daphnia: EC50/Daphnia/ 48 hours= 10-100 mg/L (OECD 202).

Toxicity to algae: Algal inhibition test are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

At natural pH's (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA), 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment, or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal, or recycling facility.

SECTION 14: TRANSPORTATION

DOT CLASSIFICATION:

Class/Division: Not restricted
 Proper Shipping Name: Not applicable
 Label: None
 Packing Group: Not applicable
 ID Number: Not applicable

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Status: Nonhazardous

TSCA: The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA: EPA Hazardous Substances (40 CFR 302):

<u>Chemical Name</u>	<u>CERCLA Reportable Quantity (RQ)</u>
None	Not applicable

SARA TITLE III (Sections 302, 311, 312, and 313):

Section 302 Extremely Hazardous Substances (40 CFR 355):

<u>Chemical Name</u>	<u>CAS#</u>	<u>RQ</u>	<u>TPQ</u>
None			

Section 311 and 312 Health and Physical Hazards:

<u>Immediate</u>	<u>Delayed</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactivity</u>
no	no	no	no	no

Section 313 Toxic Chemicals (40 CFR 372):

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent by Weight</u>
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None

SECTION 16: OTHER INFORMATION

The preceding information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change, and the conditions of handling and use or misuse are beyond our control, Water Treatment Services makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein, and disclaims all liability for reliance thereon. User should satisfy himself that he has all current data relevant to his particular use.