

MATERIAL SAFETY DATA SHEET

SUPERPLASTICIZER

SECTION 1 - PRODUCT INFORMATION

PRODUCT NAME: SUPERPLASTICIZER

CHEMICAL NAME: Sodium salt Naphthalene sulfonate
formaldehyde condensate

CAS NUMBER: 9084-06-4

SECTION 2 - HAZARD IDENTIFICATION

Appearance & Odor: brown powder; slight hydrocarbon odor.

Primary Routes of Exposure: Skin, eyes

Health Hazard Warnings: CAUTION! May cause eye and skin irritation. Prolonged or repeated overexposure to mists may cause respiratory tract irritation.

Inhalation: Prolonged or repeated overexposure to mists may cause upper respiratory irritation.

Skin Contact: Prolonged or repeated overexposure to

powder may cause slight skin irritation.

Eye Contact: Contact with eyes can cause slight irritation.

Ingestion: May cause irritation and discomfort in the form of nausea and vomiting.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>CAS REGISTRY NO.</u>	<u>PERCENT</u>
Naphthalenesulfonate formaldehyde condensate, sodium salt	9084-06-4	92
Sodium sulfate	7757-82-6	5
Water	7732-18-5	7
Formaldehyde	50-00-0	<0.10

SECTION 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with water for 10 - 15 minutes. Hold eyelids apart and roll eyes up and down to assure complete washing. Seek medical attention.

Skin: Thoroughly flush the affected area with plenty of water for at least 15 minutes. Remove contaminated

clothing and equipment. Seek medical attention.

Inhalation: Immediately move the patient to fresh air and call a physician. If breathing is difficult, give oxygen. If not breathing, begin artificial respiration.

SECTION 4 - FIRST AID MEASURES (CONT.)

Ingestion: Call a physician. Never give anything by mouth to an unconscious person. Induce vomiting only at the instruction of a doctor or nurse.

Other Specific Instructions: In the event of exposure, seek medical attention immediately. Do not give chemical antidotes unless directed to do so by the physician.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: > 200 °F **Auto Ignition:** No data available

Explosive Limits;UEL/LEL: No data available

Extinguishing Agents: Use water spray, dry chemical, carbon dioxide, or foam extinguishing agents.

Fire & Explosion Hazards: As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Firefighters should wear recommended exposure control equipment including a self-contained breathing apparatus. Cool containers with water that are exposed to flames.

Hazardous Combustion Products: Thermal decomposition produces oxides of carbon and sulfur.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Protective Equipment: Appropriate protective equipment must be worn when handling a spill of **superplasticizer**. See Section 8-Exposure Control, for recommendations.

Spill or Leak Information: Absorb material with an inert material (i.e. vermiculite, soil, etc.). Sweep or scoop the spilled material into a clean, dry container for disposal. Flush spill area with plenty of water to a chemical sewer. Collect water for proper disposal.

SECTION 7 - HANDLING AND STORAGE

Handling Conditions: Emptied container may retain product residues. Follow all warnings and precautions even after container is emptied.

Storage Conditions: Keep container tightly closed when not in use. Prevent material from freezing. Store material above 10 °C (50 °F).

SECTION 8 - EXPOSURE CONTROL

Exposure Limits: 0.3 ppm - Ceiling Formaldehyde

Eye Protection: Use safety goggles.

Skin Protection: Skin contact with material should be minimized through the use of suitable impervious gloves. Natural rubber or neoprene gloves are recommended.

Respiratory Protection: Not required under normal use. If mists can be generated, wear a NIOSH approved air-purifying particulate respirator for the mist concentrations at the point of use.

Ventilation: Good local exhaust ventilation should

be provided.

SECTION 8 - EXPOSURE CONTROL (CONT.)

Other Protective Equipment: Safety showers and eye wash stations where material is being handled. Wash hands and face before eating, using tobacco products or using the washroom. Smoke or eat only in designated areas. Take a warm shower and change clothing daily. Clothing and shoes used while handling this material should not be worn or taken away from the workplace.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: brown powder

Odor: Slight hydrocarbon odor

Melting Point: No data available

Boiling Point: Approximately 212°F

Evaporation Rate (butyl acetate=1): < 1

pH: 7 - 9 (10% solution)

Vapor Pressure (mm Hg): not available

Vapor Density (Air=1): not available

Specific Gravity/Density: Approximately 0.6

Solubility in Water: Soluble

Flash Point: not available

Auto Ignition: No data available

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and handling.

Incompatibility: Avoid materials that are not compatible with water. Avoid strong oxidizers.

Polymerization: Not expected to occur.

Decomposition: When heated to decomposition, may emit oxides of carbon and sulfur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Data: The information shown in Section 3 - Hazard Identification, is based on toxicity profiles of components present in this material.

Naphthalenesulfonate - formaldehyde condensate,

sodium salt: Oral LD₅₀ (rat): > 5.0 g/kg

Sensitization: Naphthalenesulfonate - formaldehyde condensate, sodium salt is not known to cause sensitization. However, this product contains trace levels of Formaldehyde which may cause an allergic response after repeated contact with skin.

Carcinogenicity/Mutagenicity: Naphthalenesulfonate - formaldehyde condensate, sodium salt is not considered to be a human or animal carcinogen. However, this product contains trace levels of Formaldehyde (CAS No. 50-00-0) which is identified by IARC as a probable human carcinogen, Group 2A.

Teratogenicity/Reproductive Toxicity:

Naphthalenesulfonate - formaldehyde condensate, sodium salt is not known to cause teratogenicity or reproductive toxicity.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Toxicity: The information shown below is based on toxicity profiles of similar materials.

Biodegradability: > 70% (OECD:TOC)

COD: 570 mg/g

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: This product if discarded as supplied, is considered non-hazardous as defined by RCRA. Dispose of in accordance with local, state and federal regulations.

SECTION 14 - TRANSPORT CONSIDERATIONS

Shipping Description: DOT Non-Regulated

Hazard Class: NA **ID No.:** NA **PG:** NA **Labels:** None

SECTION 15 - REGULATORY CONSIDERATIONS

OSHA Regulatory Status: This product is a hazardous chemical under 29 CFR 1910.1200

SARA Title III

Section 311/312: This product is categorized as an immediate health hazard according to EPA under Section 311/312 of SARA

Section 313: This product contains the following

chemicals subject to 313 reporting:

None above De Minimis limit

CERCLA: Formaldehyde 50-00-0

Pennsylvania Right-to-Know: Sodium sulfate solution
7757-82-6 Environmental

California Proposition 65: This product contains a trace chemical known to the State of California to cause cancer.

Formaldehyde 50-00-0 Cancer

Chemical Control Law Status:

All components of this product are listed or are excluded from listing on the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

WHMIS Ingredient Disclosure List: Not applicable

HMIS Health Rating: 1 **HMIS Fire Rating:** 0

HMIS Physical Hazards Rating: 0 **HMIS Other:** NA

SECTION 16 - OTHER CONSIDERATIONS

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