

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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