



# MATERIAL SAFETY DATA SHEET

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SECTION 1 - PRODUCT INFORMATION	
<b>PRODUCT NAME:</b> NAXONATE® 4KT	ISSUE DATE: 07/13/05
<b>CHEMICAL NAME:</b> Potassium toluenesulfonate	SUPERSEDES: 06/02/05
<b>CAS NUMBER:</b> 30526-22-8	
<b>PRODUCT CODE:</b> 4613	
<b>MSDS NO.:</b> 1-10108	

SECTION 2 - HAZARD IDENTIFICATION
<p><b>Appearance &amp; Odor:</b> Colorless to light yellow liquid, bland odor.</p> <p><b>Primary Routes of Exposure:</b> Skin and Eyes and Respiratory tract.</p> <p><b>Health Hazard Warnings:</b> CAUTION! May cause eye and skin irritation. Prolonged or repeated overexposure to mists may cause respiratory tract irritation.</p> <p><b>Inhalation:</b> Prolonged or repeated overexposure to mists may cause upper respiratory tract irritation.</p> <p><b>Skin Contact:</b> Prolonged or repeated overexposure to liquid may cause slight skin irritation.</p> <p><b>Eye Contact:</b> Contact with eyes can cause slight irritation.</p> <p><b>Ingestion:</b> May cause irritation to the membranes of the mouth, throat and gastrointestinal tract. May cause gastrointestinal irritation.</p>

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS		
<u>CHEMICAL NAME</u>	<u>CAS REGISTRY NO.</u>	<u>PERCENT</u>
Potassium toluenesulfonate	30526-22-8	> 40
Potassium sulfate	7778-80-5	< 2
Water	7732-18-5	< 60

SECTION 4 - FIRST AID MEASURES
<p><b>Eyes:</b> 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.</p> <p><b>Skin:</b> Thoroughly flush the affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and equipment.</p> <p><b>Inhalation:</b> Immediately move the patient to fresh air and call a physician. If breathing is difficult, give oxygen. If not breathing, begin artificial respiration.</p>

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## SECTION 4 - FIRST AID MEASURES (CONT.)

**Ingestion:** If swallowed, call a physician. Never give anything by mouth to an unconscious person. Induce vomiting only at the instructions of a physician or nurse.

**Other Specific Instructions:** In the event of exposure, seek medical attention immediately.

## SECTION 5 - FIRE FIGHTING MEASURES

**Flash Point:** > 250 °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. Do not apply a direct water stream on material.

**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. Avoid placing a solid stream of water on spilled material.

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

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Protective Equipment:** Appropriate protective equipment must be worn when handling a spill of **NAXONATE® 4KT**. 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 material into containers for disposal. Flush spill area with plenty of water. 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:** Store covered in a dry, well ventilated area. Keep container tightly closed when not in use. Prevent from freezing.

## SECTION 8 - EXPOSURE CONTROL

**Exposure Limits:** None established

**Eye Protection:** Use chemical 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 handling conditions. If mists can be generated, wear a NIOSH/MSHA approved dust/mist respirator for the mist concentrations at the point of use.

**Ventilation:** Good local exhaust ventilation should be provided.

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## 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:** Colorless to light yellow liquid

**Odor:** Bland

**Freezing Point:** 10 - 15 °C

**Boiling Point:** No data available

**Evaporation Rate (butyl acetate=1):** < 1

**pH:** 7 - 9

**Vapor Pressure (mm Hg):** 17 mmHg (water)

**Vapor Density (Air=1):** < 1

**Specific Gravity/Density:** 1.23 @ 30 °C

**Solubility in Water:** Completely soluble

**Flash Point:** > 250 °F

**Auto Ignition:** No data available

## SECTION 10 - STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of storage and handling.

**Incompatibility:** Strong oxidizers.

**Polymerization:** Not expected to occur.

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

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Acute Data:** The information shown in Section 2 - Hazard Identification, is based on the toxicity profile of potassium toluenesulfonate.

**Ingestion:** Oral LD50 (rat): 4.4 g/kg

**Sensitization:** Potassium toluenesulfonate is not known to cause sensitization.

**Carcinogenicity/Mutagenicity:** Potassium toluenesulfonate is not considered to be a human or animal carcinogen.

**Teratogenicity/Reproductive Toxicity:** Potassium toluenesulfonate is not known to cause teratogenicity or reproductive toxicity.

## SECTION 12 - ECOLOGICAL INFORMATION

**Acute Toxicity Data:** Potassium Toluenesulfonate is not expected to be toxic to fish or aquatic organisms based on testing of similar chemicals.

**Biodegradation:** Ready aerobic biodegradation of a similar toluenesulfonate is 100% after 3 days based on a sewage inoculum test.

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## 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:** Not applicable

**Pennsylvania Right-to-Know:** Not applicable

**California Proposition 65:** This product may contain trace chemicals known to the State of California to cause cancer and reproductive effects.

Benzene,	71-43-2;	Cancer
Toluene	108-88-3;	Reproductive

### Chemical Control Law Status:

This product is in compliance with the inventory listing requirements of the Chemical Control Laws in the following countries: United States of America, Canada, Europe, Japan, Australia

**WHMIS Ingredient Disclosure List:** Not applicable

**HMIS Health Rating:** 1

**HMIS Fire Rating:** 0

**HMIS Physical Hazard Rating:** 0

**HMIS Other:** NA

## SECTION 16 - OTHER CONSIDERATIONS

Prepared by Regulatory Staff Phone No.: (814) 238-2424

MSDS No.: 1-10108

Issue Date: 7/13/05

**Emergency Phone No.: CHEMTREC 800-424-9300**

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