

MATERIAL SAFETY DATA SHEET

Hampford Research, Inc.

SECTION 1. -----CHEMICAL PRODUCT AND COMPANY IDENTIFICATION-----

2,4,6-Trimethylpyridinium Tosylate

CHEMICAL FORMULA: C8 H11 N . C7 H8 O3 S

CAS NUMBER: 59229-09-3

CHEMICAL NAME: 2,4,6-Trimethylpyridinium Tosylate

REVISED: 10/19/2006

MANUFACTURER: Hampford Research, Inc
P.O. Box 1073
54 Veterans Blvd.
Stratford, CT 06615

EMERGENCY TELEPHONE NUMBERS: OFFICE (203) 375-1137
CHEMTREC (800) 424-9300

SECTION 2. -----COMPOSITION / INFORMATION ON INGREDIENTS-----

COMPONENT	CAS #	% BY WEIGHT	EXPOSURE LIMITS
2,4,6-Trimethylpyridinium Tosylate	59229-09-3	99+%	

SECTION 3. -----HAZARDS IDENTIFICATION-----

EYES: Irritating to eyes.

SKIN: Irritating to skin.

SWALLOWING: Harmful if swallowed.

INHALATION: Irritating to the respiratory system.

SECTION 4. -----FIRST AID MEASURES-----

EYE CONTACT:
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Seek medical advice.

SKIN CONTACT:
In case of contact, immediately wash skin with soap and copious amounts of water.

INGESTION:
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION:
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

SECTION 5. -----FIRE FIGHTING MEASURES-----

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Emits toxic fumes under fire conditions.

FIRE EXTINGUISHING MEDIA:
Water spray.
Carbon dioxide, dry chemical powder or appropriate foam.

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SPECIAL FIREFIGHTING INSTRUCTIONS:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6. -----ACCIDENTAL RELEASE MEASURES-----

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

SPILL CLEANUP MEASURES:

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

SECTION 7. -----HANDLING AND STORAGE-----

HANDLING AND STORAGE REQUIREMENTS:

Wash thoroughly after handling.
Do not breath dust.
Avoid contact with eyes, skin and clothing.
Avoid prolonged or repeated exposure.
Keep tightly closed.
Store in a cool dry place.

SECTION 8. -----PERSONAL PROTECTION/EXPOSURE CONTROLS-----

EYE/FACE PROTECTION: Chemical safety goggles. Eye bath.

SKIN PROTECTION: Compatible chemical-resistant gloves. Safety shower.

RESPIRATORY PROTECTION: NIOSH/MSHA-approved respirator.

ENGINEERING CONTROLS: Mechanical exhaust required.

SECTION 9. -----PHYSICAL AND CHEMICAL PROPERTIES-----

PHYSICAL STATE: Solid

MELTING POINT: 128° C

BOILING POINT: N/A

SPECIFIC GRAVITY: N/A

APPEARANCE: White fine crystals

ODOR: N/A

OTHER:

SECTION 10. -----STABILITY AND REACTIVITY-----

INCOMPATIBILITIES:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION:

Carbon monoxide, Carbon dioxide.
Nitrogen oxides Sulfur oxides.

CHEMICAL STABILITY:

Stable.

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HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 11. -----TOXICOLOGICAL INFORMATION-----

TOXICOLOGICAL EFFECTS:

Acute effects:
Causes skin irritation.
May be harmful if absorbed through the skin.
Causes eye irritation.
May be harmful if inhaled.
Material is irritating to mucous membranes and upper respiratory tract.
May be harmful if swallowed.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12. -----ECOLOGICAL INFORMATION-----

ECOLOGICAL EFFECTS:

Data not yet available.

SECTION 13. -----DISPOSAL INFORMATION-----

WASTE MANAGEMENT PROCEDURES:

Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local environmental regulations.

SECTION 14. -----TRANSPORT INFORMATION-----

TRANSPORTATION INFORMATION:

This material is considered non-hazardous for transport.

-----DOT (DOMESTIC SURFACE)-----

PROPER SHIPPING NAME:
HAZARD CLASS OR DIVISION:
UN / NA NUMBER:
PACKING GROUP:
DOT PRODUCT RQ lbs (kgs):
HAZARD LABEL (s):
HAZARD PLACARD (s):

-----IMO / IMDG CODE (OCEAN)-----

PROPER SHIPPING NAME:
HAZARD CLASS DIVISION NUMBER:
UN NUMBER:
PACKAGING GROUP:
HAZARD LABEL (s):
HAZARD PLACARD (s):

-----ICAO / IATA (AIR)-----

PROPER SHIPPING NAME:

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HAZARD CLASS DIVISION NUMBER:
UN NUMBER:
SUBSIDIARY RISK:
PACKING GROUP:
HAZARD LABEL (s):
RADIOACTIVE?:
PASSENGER AIR - MAX QTY:
PASSENGER PACKING INSTRUCTION:
CARGO AIR - MAX QTY:
CARGO AIR PACKAGING INSTRUCTION:

SECTION 15. -----REGULATORY INFORMATION-----

REGULATORY INFORMATION:

Not listed on TSCA for research only. Section 5 of the Toxic Substance Control Act (TSCA) provides that a chemical substance, manufactured or imported for commercial purposes, must be listed on the TSCA Chemical Substance Inventory (Inventory), have completed, Premanufacture Notice (PMN) review by the U.S. Environmental Protection Agency (EPA), or be otherwise exempt. To be eligible for the R&D Exemption, the chemical substance must be manufactured exclusively for research and development purposes and all research must be supervised by a "technically qualified individual," as defined in 40 CFR 720.3(ee). The regulatory requirements of the R&D Exemption are given at 40 CFR 720.36.

SECTION 16. -----ADDITIONAL INFORMATION-----

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Hampford Research, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. Hampford Research grants permission to make unlimited paper copies for internal use only.