

MATERIAL SAFETY DATA SHEET

Hampford Research, Inc.

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

CycloHexyl Tosylate

CHEMICAL FORMULA: C13 H18 O3 S

CAS NUMBER: 953-91-3

CHEMICAL NAME: CYCLOHEXYL P- TOLUENE SULFONATE

REVISED: 2/12/2009

MANUFACTURER: Hampford Research, Inc
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SECTION 2. -----COMPOSITION / INFORMATION ON INGREDIENTS-----

COMPONENT	CAS #	% BY WEIGHT	EXPOSURE LIMITS
CYCLOHEXYL P- TOLUENE SUFLONATE	953-91-3	99%	

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

EYES: Direct contact may cause irritation..

SKIN: Direct contact may cause skin irritation.

SWALLOWING: Ingestion may irritate gastrointestinal tract.

INHALATION: Inhalation may be harmful.

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

EYE CONTACT:
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. May cause irritation. Call physician.

SKIN CONTACT:
In case of contact, immediately wash skin with soap and copious amounts of water for at least 15 minutes. Wash contaminated clothing before reuse.

INGESTION:
If swallowed, induce vomiting immediately. GET PROMPT MEDICAL ATTENTION.

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

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

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None

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FIRE EXTINGUISHING MEDIA:

Water, foam, dry chemical.

SPECIAL FIREFIGHTING INSTRUCTIONS:

Self-contained breathing apparatus should be used.

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 suitable container and hold for proper disposal.

SECTION 7. -----HANDLING AND STORAGE-----**HANDLING AND STORAGE REQUIREMENTS:**

Store in a dry place.

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

EYE/FACE PROTECTION: Goggles.

SKIN PROTECTION: Rubber gloves, rubber apron
Wash thoroughly after handling and before eating.

RESPIRATORY PROTECTION: NIOSH / MSHA approved air purifying respirator.

ENGINEERING CONTROLS: Local exhaust required. Use only with adequate ventilation.

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

PHYSICAL STATE: Solid

MELTING POINT: 43-45 C

BOILING POINT: Unknown

SPECIFIC GRAVITY: N/A

APPEARANCE: Light pink to white

ODOR: Mild

OTHER:

SECTION 10. -----STABILITY AND REACTIVITY-----**INCOMPATIBILITIES:**

Bases, reducing, oxidizing agents.

HAZARDOUS DECOMPOSITION:

CO₂, CO and sulfur compounds may be produced upon decomposition.

CHEMICAL STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

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

TOXICOLOGICAL EFFECTS:

May cause skin and eye irritation. Inhalation of dust may be harmful. Ingestion may irritate gastrointestinal tract.

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

ECOLOGICAL EFFECTS:

Data not yet available.

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

WASTE MANAGEMENT PROCEDURES:

Incineration or landfill in compliance with State, Federal and local regulations.

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

TRANSPORTATION INFORMATION:

Not Regulated

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

PROPER SHIPPING NAME: Not Regulated not listed by DOT

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: Not Regulated

HAZARD CLASS DIVISION NUMBER:

UN NUMBER:

PACKAGING GROUP:

HAZARD LABEL (s):

HAZARD PLACARD (s):

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

PROPER SHIPPING NAME: Not Regulated Not listed by IATA

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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:

Regulatory Listings: NDSL (Canada)Part 1, January 31, 1988 ; TSCA (USA)January 2001 Inventory tape; EINECS (EEC June 15) European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:

XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 953-91-3: No information available.

Canada - DSL/NDSL

CAS# 953-91-3 is listed on Canada's NDSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

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

ADDITIONAL INFORMATION:

Confidentiality Status: Public

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.

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