

MATERIAL SAFETY DATA SHEET



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SECTION 1. ----- CHEMICAL IDENTIFICATION -----

CATALOG#: IB70142 & IB70144
NAME: TRIS
CAS# : 77-86-1

SECTION 2. ----- HAZARDS IDENTIFICATION -----

LABEL PRECAUTIONARY STATEMENTS

IRRITANT

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING.

HMS: NFPA:

H: 2 H: 2

F: 1 F: 0

R: 1 R: 0

PE: E SH: N/A

SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

CHEMICAL NAME:	CAS#:	RTECS #:	ENIECS#	%:
TRIS	77-86-1	TY2900000	201-064-4	>99.0

FOR MORE INFORMATION SEE COMPLETE RTECS ENTRY.

MF: C₄H₁₁NO₃

SYNONYMS

ADDEX-THAM * 2-AMINO-2-(HYDROXYMETHYL)PROPANE-1,3-DIOL * 2-AMINO-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL * 2-AMINO-2-METHYLOL-1,3-PROPANEDIOL * AMINOTRIMETHYLOLMETHANE * AMINOTRIS(HYDROXYMETHYL)METHANE * METHYLAMINE, 1,1,1-TRIS(HYDROXYMETHYL)- * PEHANORM * TALATROL * THAM-E * THAM SET * TRIMETHYLOLAMINOMETHANE * TRIS (BUFFERING AGENT) * TRISAMINE * TRIS-AMINO * TRISAMINOL * TRIS BUFFER * TRIS-HYDROXYMETHYL-AMINOMETHAN (GERMAN) * TRIS-HYDROXYMETHYLAMINOMETHANE * TRIS(HYDROXYMETHYL)METHANAMINE * TRIS(HYDROXYMETHYL)METHYLAMINE * TRISPUFFER * TRIS-STERIL * TROMETAMOL * TROMETAMOLE * TROMETHAMINE * TROMETHANE * TROMETHANMIN * TUTOFUSIN TRIS *

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

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

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

EXTINGUISHING MEDIA

WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, BOOTS AND HEAVY GLOVES.

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-----

DO NOT BREATHE DUST.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

KEEP TIGHTLY CLOSED.

HYGROSCOPIC

STORE IN A COOL DRY PLACE.

STORE AT ROOM TEMPERATURE.

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

CHEMICAL SAFETY GOGGLES.

COMPATIBLE CHEMICAL-RESISTANT GLOVES.

NIOSH/MSHA-APPROVED RESPIRATOR.

SAFETY SHOWER AND EYE BATH.

MECHANICAL EXHAUST RECOMMENDED.

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

APPEARANCE

SOLID.

PHYSICAL PROPERTIES

MELTING POINT: 168 °C TO 172°C

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

STABILITY

STABLE.

INCOMPATIBILITIES

BASES

OXIDIZING AGENTS

PROTECT FROM MOISTURE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE,
AND NITROGEN OXIDES.

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

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

ACUTE EFFECTS

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.

CAUSES EYE AND SKIN IRRITATION.

MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: TY2900000

1,3-PROPANEDIOL, 2-AMINO-2-(HYDROXYMETHYL)-

TOXICITY DATA

ORL-RAT LD50:5900 MG/KG

BCFAAI 110,653,1971

IVN-RAT LD50:1800 MG/KG

NIIRDN -,419,1990

IVN-MUS LD50:1210 MG/KG

ABMGAJ 17,217,1966

TARGET ORGAN DATA

BEHAVIORAL (SOMNOLENCE)

BEHAVIORAL (MUSCLE WEAKNESS)

BEHAVIORAL (COMA)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.**SECTION 12. ----- ECOLOGICAL INFORMATION -----**

DATA NOT YET AVAILABLE.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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

NOT REGULATED.

SECTION 15. REGULATORY INFORMATION

EUROPEAN INFORMATION

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.



Irritant (Xi)

R: 36/37/38

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

S: 36/37/39

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

NOHS 1974: HZD 81165; NIS 4; TNF 850; NOS 6; TNE 7274

NOES 1983: HZD 81165; NIS 9; TNF 2296; NOS 22; TNE 40897; TFE 30773

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

SECTION 16. OTHER INFORMATION

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