



6143 N. 60th Street
Milwaukee, WI 53218
414-535-8585
Date: 6/5/14

Material Safety Data Sheet

Product Name: Tth111 I
Product Number: 2420
Chemical Name: N/A
Chemical formula: N/A

Chemical Information

Glycerol	50%	Cas. # 56-81-5
Potassium Chloride	<1%	Cas. # 7447-40-7
Tris-HCl	<1%	Cas. # 77-86-1
EDTA	<1%	Cas. # 60-00-42
Dithiothreitol	<1%	Cas. # 3483-21-3
BSA	<1%	Cas. # None

Hazardous Ingredients

- 50% GLYCEROL
- NO OTHER KNOWN HAZZARDS ARE ASSOCIATED WITH THIS PRODUCT. ALL INFORMATION CONTAINED HEREIN REFERS TO HAZZARDS ASSOCIATED WITH 50% GLYCEROL

Health Hazard Data

- IRRITATING TO EYES AND SKIN
- TARGET ORGAN(S): KIDNEYS
- IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE
- WEAR SUITABLE PROTECTIVE CLOTHING

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 SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.
- IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

Fire Fighting Measures

EXTINGUISHING MEDIA

- WATER SPRAY
- CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM
- WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES
- EMITS TOXIC FUMES UNDER FIRE CONDITIONS



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Accidental Release Measures

- WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES. ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.
- VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

Exposure Controls/Personal Protection

- WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING
- MECHANICAL EXHAUST REQUIRED
- SAFETY SHOWER AND EYE BATH
- DO NOT BREATHE VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING
- AVOID PROLONGED OR REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING. WASH CONTAMINATED CLOTHING BEFORE REUSE. KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE.

Physical and Chemical Properties

PHYSICAL PROPERTIES

SOLUBILITY: WATER-SOLUBLE
SPECIFIC GRAVITY: 1.13 g/ml
PH: 5.5 – 8
APPEARANCE: Colorless Liquid

Stability and Reactivity

CONDITIONS TO AVOID

- PROTECT FROM MOISTURE

INCOMPATIBILITIES

- PROTECT FROM MOISTURE
- STRONG OXIDIZING AGENTS
- STRONG BASES

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

- CARBON MONOXIDE, CARBON DIOXIDE

HAZARDOUS POLYMERIZATION

- WILL NOT OCCUR

Toxicological Information

ACUTE EFFECTS

- MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT
- MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
- CAUSES EYE AND SKIN IRRITATION
- PROLONGED EXPOSURE CAN CAUSE: NAUSEA, HEADACHE AND VOMITING
- TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED

CHRONIC EFFECTS

- TARGET ORGAN(S): KIDNEYS