SIGMA CHEMICAL COMPANY -- TRIZMA BASE REAGENT GRADE -- 6810-00F009221

========== Product Identification ==========

Product ID:TRIZMA BASE REAGENT GRADE
MSDS Date:05/02/1989
FSC:6810
NIIN:00F009221
MSDS Number: BGZNX
=== Responsible Party ===
Company Name:SIGMA CHEMICAL COMPANY
Box:14508
City:ST. LOUIS
State:MO
ZIP:63178
Info Phone Num:(800) 325-8070
Emergency Phone Num:(314) 771-5765
CAGE:21076
=== Contractor Identification ===
Company Name:SIGMA CHEMICAL COMPANY
Address:3050 SPRUCE ST
Box:14508
City:ST LOUIS
State:MO
ZIP:63178
Country:US
Phone:314-771-5765
CAGE:21076

========== Composition/Information on Ingredients ==========

Ingred Name:1,3-PROPANEDIOL , 2-AMINO-2-(HYDROXYMETHYL)
CAS:77-86-1
RTECS #:TY2900000

========== Hazards Identification ==========

LD50 LC50 Mixture:LD50 ORAL (RAT) 5900 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION/INGESTION: IRRITATION, HARMFUL, MUCOUS MEMBRANES, UPPER RESPIRATORY TRACT. EYES/SKIN: IRRITATION & SKIN ABSORPTION.
Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION/INGESTION: HARMFUL. IRRITATION OF MUCOUS MEMBRANE, UPPER RESPIRATORY TRACT. EYES/SKIN: IRRITATION.

First Aid Measures

First Aid:EYES: FLUSH W/COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SKIN: WASH W/SOAP & COPIOUS AMOUNTS OF WATER. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHIN G IS DIFFICULT, GIVE OXYGEN. CALL PHYSICIAN.

Fire Fighting Measures

Extinguishing Media:WATER SPRAY, CO2, DRY CHEMICAL POWDER, ALCOHOL/POLYMER FOAM.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING TO PREVENT CONTACT W/SKIN & EYES.
Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

Accidental Release Measures

Spill Release Procedures:SWEEP UP, PLACE IN BAG & HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST. VENTILATE AREA & WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
Neutralizing Agent:SODIUM CARBONATE/SLAKED LIME.

Handling and Storage

Handling and Storage Precautions:DON'T BREATHE DUST. AVOID CONTACT W/EYES, SKIN & CLOTHING. AVOID PROLONGED/REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING.
Other Precautions:KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE.

Exposure Controls/Personal Protection

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR.
Ventilation:MECHANICAL/LOCAL EXHAUST: REQUIRED.
Protective Gloves:RESISTANT
Eye Protection:GOGGLES
Other Protective Equipment:SAFETY SHOWER & EYE BATH.
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT W/EYES, SKIN & CLOTHING.
Supplemental Safety and Health

Physical/Chemical Properties

Boiling Pt:B.P. Text:219-220F
Melt/Freeze Pt:M.P/F.P Text:171.2C
Appearance and Odor:WHITE CRYSTALS

Stability and Reactivity Data

Stability Indicator/Materials to Avoid:YES
BASES & OXIDIZING AGENTS
Hazardous Decomposition Products:CO, CO2, NITROGEN OXIDES

Disposal Considerations

Waste Disposal Methods:THIS MATERIAL SHOULD BE IGNITED IN PRESENCE OF SODIUM CARBONATE/SLAKED LIME. SUBSTANCE SHOULD BE MIXED W/VERMICULITE/THE W/DRY CAUSTICS, WRAPPED IN PAPER/BURNED IN CHEMICAL INCINERATOR EQUIPPED W/AFTE RBURNER/SCRUBBER. OBSERVE FEDERAL/STATE/LOCAL LAW.

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