

NITRIC ACID,70%

MSDS Number

BBBQP

National Stock Number

6810-00B130002

Product Name

NITRIC ACID,70%

Manufacturer

MALLINCKRODT

Product Identification

Product ID:NITRIC ACID,70%

MSDS Date:10/21/1986

FSC:6810

NIIN:00B130002

MSDS Number: BBBQP

Responsible Party

MALLINCKRODT

PARIS , KY 43061

US

Emergency Phone: 314982-5000

Cage: ZA916

Contractor

MALLINCKRODT SPECIALTY CHEMICALS CO

PHILLIPSBURG, NJ 08865

US

908-859-2151

Cage: 62910

Ingredients

NITRIC ACID

CAS: 7647-01-0

RTECS: OU5775000

Fraction By Weight: 70%

OSHA PEL2PPM

ACGIH TLV: 2PPM

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:INHALATION OF VAPORS CAN CAUSE BREATHING DIFFICULTIES AND LEAD TO PNEUMONIA AND PULMONARY EDEMA,WHICH MAY BE FATAL.OTHER SYMPTOMS MAY INCLUDE COUGHING,CHOKING,AND IRRITATION OF THE NOSE AND THROAT AND RESPIRATORY TRACT.SKIN CONTACT CAN CAUSE REDNESS,PAIN AND SEVERE SKIN BURNS.EYE CONTACT:VAPORS MAY CAUSE DAMAGE TO EYES
Effects of Overexposure:INGESTION:SWALLOWING NITRIC ACID CAN CAUSE IMMEDIATE PAIN AND BURNS OF THE MOUTH,THROAT,ESOPHAGUS AND

GASTROINTESTINAL TRACT.CONCENTRATED SOLUTIONS CAUSE DEEP ULCERS AND STAIN SKIN A YELLOW OR YELLOW- BROWN COLOR.LONG TERM EXPOSURE TO CONCENTRATED VAPORS MAY CAUSE EROSION OF TEETH.SPLASHES TO EYES MAY CAUSE PERM.DAMAGE.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE DISEASE MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid

First Aid:INHALATION:REMOVE TO FRESH AIR.IF NOT BREATHING,GIVE ARTIFICIAL RESPIRATION.IF BREATHING IS DIFFICULT,GIVE OXYGEN.IF INGESTED DO NOT INDUCE VOMITING!GIVE LARGE QUANT.OF WATER OR MILK IF AVAILABLE.IN C ASE OF SKIN CONTACT,IMMED.FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MIN.REMOVE CONTAMINATED CLOTHING AND SHOES.EYE CONTACT:WASH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN.GET WATER UNDER EYELIDS.

Fire Fighting

Extinguishing Media:IF INVOLVED IN A FIRE,USE WATER SPRAY.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS W/FULL FACE PIECE.

Unusual Fire/Explosion Hazard:REACTS EXPLOSIVELY WITH COMBUSTIBLE ORGANIC OR READILY OXIDIZABLE MATERIALS SUCH AS:ALCOHOLS,TURPENTINE,CHARCOAL,ORGANIC REFUSE,METAL POWDER,HYDROGEN SULFIDE,ET

Accidental Release

Spill Release Procedures:SMALL SPILLS:FLUSH WITH WATER AND NEUTRALIZE W/ALKALINE MATERIAL.SEWER WITH EXCESS WATER.LARGE SPILLS AND LOT SIZES:NEUTRALIZE W/ALKALINE MATERIAL,PICK UP WITH ABSORBENT MATERIAL(SAND,EARTH,VERMICULIT E).

Neutralizing Agent:ALKALINE MATERIAL(SODA ASH,LIME,ETC.)

Handling

Handling and Storage Precautions:KEEP IN A TIGHTLY CLOSED CONTAINER,STORE IN A COOL,DRY,VENTILATED AREA.PROTECT FROM PHYSICAL DAMAGE AND DIRECT SUNLIGHT.PROTECT FROM MOISTURE.

Other Precautions:ISOLATE FROM INCOMPATIBLE SUBSTANCES.DANGER!STRONG OXIDIZER.CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.CORROSIVE.LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE.HARMFUL IF INHALED.INHALATION MAY CAUSE LUNG DAMAGE.

Exposure Controls

Respiratory Protection:IF TLV IS EXCEEDED,WEAR A SUPPLIED AIR,FULL-FACEPIECE RESPIRATOR,AIRLINED HOOD,OR SELF-CONTAINED BREATHING APPARATUS.NITRIC ACID SHOULD NOT COME IN CONTACT W/CARTRIDGES AND CANISTERS THAT CONTAIN OXID IZABLE MATERIALS,LIKE ACTIVATED CHARCOAL

Ventilation:LOCAL AND/OR GENERAL EXHAUST TO KEEP EMPLOYEE EXPOSURE BELOW AIRBORNE EXPOSURE LIMITS.LOCAL EXHAUST VENTI.IS PREFERRED.

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:CHEMICAL SAFETY GOGGLES/FULL FACE SHIELD

Other Protective Equipment:WEAR IMPERVIOUS PROTECTIVE CLOTHING,INCLUDING BOOTS,LAB COAT,APRON OR COVERALLS TO PREVENT SKIN CONTACT.

Work Hygienic Practices:MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

THIS SUBSTANCE IS CLASSIFIED AS A POISON UNDER THE FEDERAL CAUSTIC POISON ACT.MAY BE FATAL IF SWALLOWED.

Chemical Properties

Boiling Pt:B.P. Text:122C(252F)

Melt/Freeze Pt:M.P/F.P Text:-34C (-29F)

Vapor Pres:62@ 20C 68

Vapor Density:2-3 APPROX
Spec Gravity:1.41
Solubility in Water:INFINITE
Appearance and Odor:CLEAR,COLORLESS TO SLIGHTLY YELLOW LIQUID
W/SUFFOCATING ACRID ODOR.

Stability

Stability Indicator/Materials to Avoid:YES
STRONG BASES,METALLIC POWDERS,CARBIDES,HYDROGEN SULFIDE,TURPENTINE,AND
COMBUSTIBLE ORGANICS.
Stability Condition to Avoid:STABLE UNDER NORMAL CONDITIONS OF USE AND
STORAGE.CONTAINERS MAY BURST WHEN HEATED.
Hazardous Decomposition Products:EMITS TOXIC NITROGEN OXIDES FUMES AND
HYDROGEN NITRATE.REACTS W/WATER OR STREAM.PRODUCE HEAT AND
TOXIC&CORROSIVE FUMES.

Disposal

Waste Disposal Methods:DISPOSE IN A RCRA APPROVED WASTE FACILITY OR
SEWER THE NEUTRALIZED SLURRY WITH EXCESS WATER IF LOCAL ORDINANCES
ALLOW.PROVIDE FORCED VENTILATION TO DISSIPATE FUMES.

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