

MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION -- NITRIC ACID 1.0 N VOLUMETRIC SOLUTION  
-- 6810-00-270-9978

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

Product ID:NITRIC ACID 1.0 N VOLUMETRIC SOLUTION

MSDS Date:08/08/1986

FSC:6810

NIIN:00-270-9978

MSDS Number: BDRVM

=== Responsible Party ===

Company Name:MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION

Address:PARIS BYPASS

Box:M

City:PARIS

State:KY

ZIP:40361

Count

ry:US

Info Phone Num:314-982-5000

Emergency Phone Num:314-982-5000

CAGE:62910

=== Contractor Identification ===

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

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

Ingred Name:NITRIC ACID (SARA III)

CAS:7697-37-2

RTECS #:QU5775000

Fraction by Wt: 6.3%

OSHA PEL:2 PPM/4 STEL

ACGIH TLV:2 PPM/4 STEL; 9192

EPA Rpt Qty:1000 L

BS  
DOT Rpt Qty:1000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: BALANCE

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

LD50 LC50 Mixture:RAT CL 50:244 PPM(NO\*2)/30M  
Routes of Entry: Inhalation:YES Skin:UNKNOWN Ingestion:YES  
Health Hazards Acute and Chronic:ACUTE:CORROSIVE TO ALL BODY  
TISSUES;IRRITATING TO EYES OR EYE DAMAGE;SKIN BURNS,PAIN,PULMONARY  
EDEMA,COUGHING,CHOKING,IRRITATION OF RESPIRATORY TRACT.  
CHRONIC:ERROSION OF TEETH.

Effects of Overexposure:SEE HEALTH DATA.  
Medical Cond Aggravated by Exposure:SKIN DISEASE/DERMATITIS;EYE DEFECTS

=====  
===== First Aid Measures =====

First Aid:EYES:WASH THOROUGHLY WITH PLENTY OF WATER & CALL A PHYSICIAN  
IMMEDIATELY. SKIN:WASH WITH PLENTY OF WATER;SEEK MEDICAL HELP.  
INHALATION:REMOVE TO FRESH AIR.GIVE OXYGEN,CALL A PHYSICIAN.  
INGESTION:DO NO T INDUCE VOMITING,CALL A PHYSICIAN AT ONCE.

=====  
===== Fire Fighting Measures

Flash Point:NONE  
Extinguishing Media:WATER SPRAY,DRY CHEMICAL,CO\*2 OR FOAM  
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA IN AN ENCLOSED  
AREA.  
Unusual Fire/Explosion Hazard:MAY REACT EXPLOSIVELY WITH COMBUSTIBLE  
ORGANIC OR READILY OXIDIZABLE MATERIALS.

=====  
===== Accidental Release Measures =====

Spill Release Procedures:USE PROPER PERSONAL PROTECTION;USE SAND,EARTH  
OR VERMICULITE AS ABSORBENT MATERIAL AND RECOVER FOR PROPER

DISPOSAL.NEUTRALIZE BEFORE DISPOSAL.

Neutralizing Agent:SODA ASH,LIME

=====  
===== Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL,DRY AND WELL VENTILATED AREA;KEEP CONTAINER CLOSED WHEN NOT IN USE.ISOLATE FROM COMPATIBLES.

=====  
===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR OR SCBA IF ABOVE PEL/TLV.

Ventilation:LOCAL/MECHANICAL TO MAINTAIN PEL/TLV.

Prot

ective Gloves:IMPERVIOUS

Eye Protection:CHEMICAL GOGGLES

Other Protective Equipment:EYE WASH,SAFETY SHOWER,IMPERVIOUS CLOTHING

Work Hygienic Practices:AVOID CONTACT WITH EYES,SKIN;DO NOT BREATHE VAPORS/MIST;WASH THOROUGHLY AFTER EACH USE.

Supplemental Safety and Health

=====  
===== Physical/Chemical Properties =====

HCC:C1

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR,COLORLESS TO SLIGHTLY YELLOW LIQUID,SUFFOCATING ACRID

=====  
===== Stability and R

activity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS,STRONG BASE,METALLIC POWDERS,CARBIDES,H\*2S ORGANIC MATERIAL

Stability Condition to Avoid:EXTREME HEAT

Hazardous Decomposition Products:TOXIC NITROGEN OXIDES

=====  
===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF COLLECTED MATERIAL IN ACCORDANCE WITH LOCAL,STATE AND FEDERAL,REGULATIONS.

Disclaimer (provided with this information by the compiling

agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.