

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

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===== 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

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===== 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

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

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

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

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

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===== 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.

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===== 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

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

HCC:C1

Solubility in Water:COMPLETE

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

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===== 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

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

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

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