

## **NITRIC ACID**

### **MSDS Number**

BHYPM

### **National Stock Number**

6810-01-325-0023

### **Product Name**

NITRIC ACID

### **Manufacturer**

J T BAKER INC

### **Product Identification**

Product ID:NITRIC ACID

MSDS Date:01/18/1991

FSC:6810

NIIN:01-325-0023

MSDS Number: BHYPM

### **Responsible Party**

J T BAKER INC

222 RED SCHOOL LANE

PHILLIPSBURG , NJ 08865

US

Emergency Phone: 908-859-2151,800-424-9300(CHEMTREC)

Info Phone: 908-859-2151

Cage: DO803

### **Contractor**

MALLINCKRODT BAKER, INC.

PHILLIPSBURG, NJ 08865

US

800-582-2537

Cage: 70829

### **Ingredients**

NITRIC ACID

CAS: 7697-37-2

RTECS: QU5775000

Fraction By Weight: 65-71%

OSHA PEL2 PPM;4 PPM STEL

ACGIH TLV: 2 PPM;4 PPM STEL

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

WATER

CAS: 7732-18-5

RTECS: ZC0110000

Fraction By Weight: 29-35%

## Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHAL: SEVERE IRRITATION OR BURNS OF RESPIRATORY SYSTEM, COUGHING, DIFFICULT BREATHING, CHEST PAINS, PULMONARY EDEMA, LUNG INFLAMMATION,, UNCONSCIOUSNESS, AND MAY BE FATAL. SKIN: SEVERE IRRITATION/BURNS. EYE: SEVERE IRRITATION OR BURNS. INGEST: NAUSEA, VOMITING, SEVERE BURNS, ULCERATION - MOUTH, (SEE EFTS OF OVEREXPOS)  
Explanation of Carcinogenicity:NOT RELEVANT.  
Effects of Overexposure:HLTH HAZ: THROAT, STOMACH, AND MAY BE FATAL. CHRONIC EFFECTS: DAMAGE TO LUNGS, TEETH. TARGET ORGANS: EYES, SKIN, MUCOUS MEMBRANES, RESPIRATORY SYSTEM, LUNGS, TEETH, GI TRACT.  
Medical Cond Aggravated by Exposure:DAMAGED SKIN, EYE DISORDERS, CARDIOPULMONARY DISEASE, LUNG DISEASE.

## First Aid

First Aid:EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY. INGESTED:DO NOT INDUCE VOMITING. GIVE 2 LARGE GLASSES OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. DOCTOR TO ORDER VOMITING. NOTHING BY MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE,SEE A DOCTOR.

## Fire Fighting

Flash Point Method:CC  
Autoignition Temp:Autoignition Temp Text:NONE  
Extinguishing Media:USE WATER SPRAY.  
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE AND PROPER PROTECTIVE EQUIPMENT. MOVE EXPOSED CNTNRS IF W/O RISK.  
Unusual Fire/Explosion Hazard:STRONG OXIDIZER. CONTACT W/OTHER MATL MAY CAUSE FIRE. REACTS W/MOST METALS TO PRODUCE HYDROGEN GAS, WHICH CAN FORM AN EXPLOSIVE MIXTURE W/AIR. EXOTHERMS W H2O

## Accidental Release

Spill Release Procedures:WEAR SCBA & FULL PROT CLTHG. STOP LEAK IF YOU CAN DO SO W/O RISK. VENTILATE. NEUTRALIZE SPILL. WITH CLEAN SHOVEL, CAREFULLY PLACE MATL INTO CLEAN, DRY CNTNR & COVER; REMOVE FROM AREA. FLUSH SPILL AREA W/WATER. KEEP COMBUSTABLES FROM SPILLED MATERIAL.  
Neutralizing Agent:SODA ASH, LIME. J T BAKER NEUTRASORB OR TEAM 'LOW NA + ' ACID NEUTS ARE RECOMND.

## Handling

Handling and Storage Precautions:KEEP CNTNR TIGHTLY CLOSED. STORE SEPARATELY & AWAY FROM FLAMM & COMBUSTIBLE MATLS. ISOLATE FROM INCOMPATIBLE MATERIALS. KEEP PRODUCT OUT OF LIGHT.  
Other Precautions:NO INFORMATION GIVEN ON MSDS BY SUPPLIER

## Exposure Controls

Respiratory Protection:RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA RESPIRATOR FOR ACID DUST/MIST IF EXPOSURE IS ABOVE THE TLV/PEL OR IF ABOVE 100 PPM SUPPLIED AIR RESP OR SCBA. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.  
Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.  
Protective Gloves:NEOPRENE GLOVES.  
Eye Protection:SPLASH GOGGLES PLUS FULL FACE SHIELD  
Other Protective Equipment:UNIFORM & PROTECTIVE SUIT. HMIS:EMERGENCY EYE WASH AND DELUGE SHOWER  
Work Hygienic Practices:USE STRICT CHEMICAL HYGIENE PRACTICE. AVOID ALL CONTACT, IF POSSIBLE. WASH THOROUGHLY BEFORE EATING OR DRINKING.  
Supplemental Safety and Health

MSDS RECEIVED FROM NAVY (FOCAL POINT N). NAVY IDENTIFIED NSN.

## Chemical Properties

HCC:C1

Boiling Pt:B.P. Text:249F,121C

Melt/Freeze Pt:M.P/F.P Text:-43F,-42C

Vapor Pres:9

Spec Gravity:1.4

pH:1

Viscosity:NONE SPECIFI.

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS LIQUID. SUFFOCATING ODOR.

Percent Volatiles by Volume:100

## Stability

Stability Indicator/Materials to Avoid:YES

STRONG BASES, CARBONATES, SULFIDES, CYANIDES, COMBUSTIBLES, REDUCERS, METALS,CARBIDES, NH4OH, WATER, ALCOHOLS

Stability Condition to Avoid:HEAT, LIGHT, MOISTURE.

Hazardous Decomposition Products:OXIDES OF NITROGEN, HYDROGEN.

## Disposal

Waste Disposal Methods:DISPOSE I/A/W ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

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