

MALLINKRODT-BAKER -- NITRIC ACID,50-70 %,9601,37 W 3400 -- 6810-00-185-6977

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Product Identification  
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Product ID:NITRIC ACID,50-70 %,9601,37 W 3400

MSDS Date:12/08/1996

FSC:6810

NIIN:00-185-6977

Status Code:A

MSDS Number: CHVSR

=== Responsible Party ===

Company Name:MALLINKRODT-BAKER

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Info Phone Num:908-859-2

151/800-582-2537

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

CAGE:EO303

=== Contractor Identification ===

Company Name:MALLINCKRODT BAKER, INC.

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:800-582-2537

CAGE:70829

Company Name:MALLINKRODT-BAKER (FORMALLY J.T. BAKER COMPANY)

Address:222 RED SCHOOL LANE

Box:NONE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Phone:800-582-2537 EXT 6501/908-859-2151

CAGE:EO303

Company Name:WARDS NATURAL SCI

ENCE ESTABLISHMENT INC  
Address:5100 W HENRIETTA RD  
Box:92912  
City:ROCHESTER  
State:NY  
ZIP:14692-9012  
Country:US  
Phone:(716) 359-2502  
CAGE:63759

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

Ingred Name:NITRIC ACID (SARA 302/313) (CERCLA)  
CAS:7697-37-2  
RTECS #:QU5775000  
Fraction by Wt: 65 - 70%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 PPM  
ACGIH TLV:2 PPM/4 STEL; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by  
Wt: 30 - 35%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:NOT RELEVANT  
ACGIH TLV:NOT RELEVANT

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

LD50 LC50 Mixture:LC50 (RAT): 244 PPM (NO2)/30 M  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS: EYES, SKIN, TEETH,  
RESPIRATORY & GI TRACTS. ACUTE- CORROSIVE & POISON. INHALE: VAPORS  
CAN CAUSE PNEUMONIA WHICH MAY BE FATAL. EYE/SKIN: SEVERE BURNS. MAY  
CAUSE BLINDNESS, DEEP SKIN ULCERS. ORAL: SEVERE PAIN & BURNS OF  
MOUTH,THROAT, ESOPHAGUS & GI TRACT. CHRONIC- EROSION OF TEETH, LUNG  
DAMAGE.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:SEVERE IRRITATION, BURNS, COUGHING, DIFFICULT  
BREATHING, CHEST PAIN, ABDOMINAL PAIN, NAUSEA, VOMITING, DENTAL  
EROSION, CHOKING, SKIN REDNESS OR YELLOW-BROWN STAIN, EYE DAMAGE,  
SKIN LESIONS, DEATH  
Medical Cond Aggravated by Exposure:PERSONS W

ITH PRE-EXISTING SKIN

DISORDERS, EYE, CARDIO PULMONARY AND LUNG DISEASES MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:GET IMMEDIATE MEDICAL HELP FOR ALL CASES OF EXPOSURE.

EYE/SKIN: AT ONCE FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED: MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL: DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF MILK/WAT

ER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:FLOOD WITH WATER OR USE WATER SPRAY. USE WATER SPRAY TO DILUTE ACID AND TO COOL FIRE-EXPOSED CONTAINERS AND STRUCTURES.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:STRONG OXIDIZER. CONTACT WITH COMBUSTIBLES, FLAMMABLES/POWDERED METALS CAN CAUSE FIRE OR EXPLOSION. REACTS WITH MOST METALS FORMING HYDROGEN WHICH CAN EXPLODE.

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

Spill Release Procedures:WEAR PROPER PROTECTIVE EQUIPMENT. VENTILATE AREA. REMOVE IGNITION SOURCES(H<sub>2</sub> MAY BE PRESENT). DO NOT RELEASE INTO SOIL, SEWER. ADD WATER AND NEUTRALIZE WITH SODA ASH.

DO NOT

FLUSH TO SEWER. PLACE IN C ONTAINER FOR DISPOSAL. REPORT RELEASES IF REQUIRED

Neutralizing Agent:SODA ASH, LIME, SODIUM BICARBONATE

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

Handling and Storage Precautions:STORE IN COOL, WELL-VENTILATED, CORROSION-PROOF AREA, AWAY FROM SUNLIGHT, HEAT, FLAME, COMBUSTIBLES & INCOMPATIBLES. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:DANGER! CORROSIVE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID BRE

ATHING VAPORS. USE UNDER THE HOOD WITH ADEQUATE VENTILATION. PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE. WASH THOROUGHLY AFTER HANDLING. EMPTY CONTAINER RETAINS RESIDUE

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

Respiratory Protection:USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE WHEN PERMISSIBLE EXPOSURE LIMITS ARE EXCEEDED. DO NOT USE CHEMICAL CARTRIDGE RESPIRATORS WITH OXIDIZABLE SORBANTS. USE UNDER THE HOOD.

Ventilation:PROVIDE GENERAL VENTILATION OR LOCAL EXHAUST TO MEET OSHA PERMISSIBLE EXPOSURE LIMITS (OSHA PEL).

Protective Gloves:PVC, NEOPRENE, BUTYL

Eye Protection:SAFETY GLASSES WITH SIDE SHIELD/GOGGLES

Other Protective Equipment:RUBBER SPLASH APRON, RUBBER BOOTS, EYEWASH FOUNTAIN, SAFETY SHOWER

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

NOTE

TO PHYSICIAN: WASH AFFECTED SKIN AREAS WITH A 5% SOLUTION OF SODIUM BICARBONATE. IF INGESTED, THE RISK VERSUS THE BENEFIT OF THE PASSAGE OF A NASO-GASTRIC TUBE IS DEBATABLE. ACTIVATED CHARCOAL IS OF NO VALUE. DO NOT GIVE THE EXPOSED PERSON BICARBONATE TO NEUTRALIZE THE MATERIAL.

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

HCC:C1

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:252F,122C

Melt/Freeze Pt:M.P/F.P Text:-44F,-42C

Vapor Pres:48 @ 68F

Vapo

r Density:2-3

Spec Gravity:1.41

pH:1 0.1M

Solubility in Water:100%

Appearance and Odor:CLEAR, COLORLESS TO YELLOWISH LIQUID; SUFFOCATING,ACRID ODOR

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

BASES, CARBIDES, CYANIDES, COMBUSTIBLES, ORGANIC MATERIALS, METALLIC POWDER, TURPENTINE, HYDROGEN SULFIDE, IRON, COPPER

Stability Condition to Avoid:HEAT, LIGHT

Hazardous Decomposition Products:OXIDE

S OF NITROGEN INCLUDING NITROUS  
OXIDE (N<sub>2</sub>O), NITRIC OXIDE (NO), NITROGEN DIOXIDE (NO<sub>2</sub>); NITRIC ACID  
MIST OR VAPORS

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

Waste Disposal Methods:OBSERVE FEDERAL, STATE AND LOCAL ENVIRONMENTAL  
REGULATORS FOR PROPER DISPOSAL. CONSIDER REUSING. KEEP COMBUSTIBLES  
AWAY FROM SPILLED MATERIAL.

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