

J T BAKER INC -- 9680, SULFURIC ACID -- 6810-00-146-7515

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

Product ID:9680, SULFURIC ACID

MSDS Date:05/01/1989

FSC:6810

NIIN:00-146-7515

MSDS Number: BNPLN

=== Responsible Party ===

Company Name:J T BAKER INC

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Info Phone Num:201-582-2537

Emergency Phone Num:201-859-2151;800-424-9300(CH

EMTREC)

CAGE:DO803

=== Contractor Identification ===

Company Name:J T BAKER INC

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:1-800-582-2537

CAGE:DO803

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

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

Ingred Name:SULFURIC ACID

CAS:7664-93-9

RTECS #:WS5600000

Fraction by Wt: 90-98%

OSHA PEL:1

MG/M3  
ACGIH TLV:1 MG/M3;3 MG/M3 STEL  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 2-10%

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

LD50 LC50 Mixture:LD50:(ORAL,RAT)2140 MG/KG  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: INHALATION: SEVERE IRRITATION  
OR BURNS OF RESPIRATORY SYSTEM, PULMONARY EDEMA, LU  
NG INFLAMMATION.  
SKIN/EYE: SEVERE BURNS. SKIN ABSORPTION: NONE IDENTIFIED.  
INGESTION: NAUSEA, VOMITING, SEVERE BURNS TO MOUTH, THROAT, AND  
STOMACH, KIDNEY DISFUNCTION. CHRONIC: LUNG DAMAGE.  
Explanation of Carcinogenicity:NOT RELEVANT  
Medical Cond Aggravated by Exposure:RESPIRATORY SYSTEM DISEASE.

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

First Aid:INGESTION: CALL A DOCTOR. DO NOT INDUCE VOMITING. IF  
CONSCIOUS, GIVE LARGE AMOUNTS OF WATER. INHALATION:  
REMOVE TO FRESH  
AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS  
DIFFICULT, GIVE OXYGEN. SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT  
LEAST 15 MINUTES AND REMOVE CONTAMINATED CLOTHING. WASH CLOTHING  
BEFORE REUSE. EYES: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15  
MINUTES.

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

Extinguishing Media:USE DRY CHEMICAL OR CARBON DIOXIDE. DO NOT USE  
WATER.  
Fire Fighting Procedures:WEAR NIOSH/MSHA

APPROVED SCBA AND FULL

PROTECTIVE EQUIPMENT. DO NOT GET WATER INSIDE CONTAINERS.

Unusual Fire/Explosion Hazard:REACTS W/MOST METALS TO PRDCE HYDROGEN GAS, WHICH CAN FORM AN EXPLO MIX W/AIR. A VIOLENT EXOTHERMIC RXN OCCURS W/H2O. SUFFICIENT HEAT MAY BE PRDCD (SUPP DATA)

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

Spill Release Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT CLTHG. STOP LEAK IF YOU CAN DO SO W/OUT RISK. DO NOT USE WATER. NEUTRALIZE

SPILL &/OR WASHING WITH SODA ASH OR LIME. W/CLEAN SHOVEL, PLACE MATL INTO CLEAN, DRY CONTR & COVER. MOVE CONTR(S) FROM SPILLAREA.

Neutralizing Agent:J.T. BAKER NEUTRASORB (R) OR TEAM 'LOW NA+' ACID NEUTRALIZERS. SODA ASH/LIME.

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

Handling and Storage Precautions:KEEP CONTAINERS TIGHTLY CLOSED. LOOSEN CLOSURE CAUTIOUSLY. STORE IN CORROSION-PROOF AREA. KEEP CONTAINERS OUT OF SUN AND AWAY FROM HEAT.

Other Precaution

s:ISOLATE FROM INCOMPATIBLE MATERIALS. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE VAPORS.

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

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION EXCEEDS TLV, NIOSH/MSHA APPROVED SCBA IS ADVISED.

Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS. VENT HOOD.

Protective Gloves:RUBBER GLOVES.

Eye Protection:CHEMICAL WORK GOGGLES, FULL FACESHIELD

Other Protective Equipment:UNIFORM, PROTECTIVE SUIT, LAB COAT, APRON. DELUGE SHOWER AND EMERGENCY EYE WASH

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

PH: 1.0 (0.1 M SOLUTION). EXPLOSION HAZARD: TO IGNITE COMBUSTIBLE MATERIALS. MATERIALS TO AVOID: SULFIDES, CYANIDES, STRONG OXIDIZING AGENTS, CARBIDES.

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

HCC:C1

Boiling Pt:B.P. Text:620F,327C

Melt/

Freeze Pt:M.P/F.P Text:28.4F,-2.0C

Vapor Pres:< 0.3 @20C

Vapor Density:3.4

Spec Gravity:1.84

Evaporation Rate & Reference:< 1 (BUTYL ACETATE = 1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS TO YELLOW VISCOUS LIQUID.  
ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

WATER, MOST METALS, ORGANIC MATERIALS, STRONG REDUCING AGENTS,  
COMBUSTIBLE MATLS, STRONG BASES, CARBONATES, (SUPP DATA)

Stabili

ty Condition to Avoid:MOISTURE, HEAT.

Hazardous Decomposition Products:OXIDES OF SULFUR, HYDROGEN.

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL APPLICABLE  
FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. EPA HAZARDOUS  
WASTE NUMBER: D002, D003 (CORROSIVE, REACTIVE WASTE).

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