

J.T.BAKER CHEMICAL CO. -- BROMINE;PRODUCT CODE:9760,9764 -- 6810-00-241-1125

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

Product ID:BROMINE;PRODUCT CODE:9760,9764

MSDS Date:05/01/1989

FSC:6810

NIIN:00-241-1125

MSDS Number: BJZSY

=== Responsible Party ===

Company Name:J.T.BAKER CHEMICAL CO.

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Info Phone Num:201-859-2151

Emergenc

y Phone Num:201-859-2151

CAGE:DO870

=== Contractor Identification ===

Company Name:J.T.BAKER CHEMICAL CO.

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Phone:201-859-2151

CAGE:DO870

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:BROMINE (SARA III)

CAS:7726-95-6

RTECS #:EF9100000

Fraction by Wt: 90-100%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.1PPM/0.3 STEL  
ACGIH TLV:0.1PPM/0.3 STEL;9192

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

LD50 LC50 Mixture:LC50:(INH,MUS) 750 PPM.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHAL: IRRIT OF NOSE & THROAT, SEVERE  
IRRIT OF RESPIRATORY SYSTEM, COUGHING, CHEST PAINS, IRRIT OF NOSE &  
THROAT, MAY CAUSE  
PULMONARY EDEMA. SKIN/EYE: IRRIT, SEVERE IRRIT OR  
BURNS. INGEST: NAUSEA, VOM ITING, GASTROINTESTINAL IRRIT, BURNS  
TOMOUTH & THROAT. TARGET ORGANS: RESP SYS, EYES, SKIN, CNS, HEART.  
Explanation of Carcinogenicity:NOT RELEVANT  
Effects of Overexposure:SEE HEALTH HAZARDS.  
Medical Cond Aggravated by Exposure:ASTHMA, HEART DISORDERS,  
RESPIRATORY SYSTEM DISEASE, DAMAGED SKIN.

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

First Aid:INGEST: CALL MD. IF SWALLOWED, DO  
NOT INDUCE VOMIT. IF  
CONSCIOUS, GIVE WATER, MILK OR MILK OF MAGNESIA. INHAL: REMOVE TO  
FRESH AIR. IF NOT BRTHG, GIVE ARTF RESP. IF BRTHG DFCLT, GIVE O2.  
SKIN: IMMED F LUSH W/PLENTY OF WATER FOR AT LEAST 15 MIN WHILE  
REMOVING CONTAMD CLTHG/SHOES. WASH CLTHG BEFORE RE-USE. EYE: IMMED  
FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MIN.

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

Flash Point Method:CC  
Flash Point:NONE  
Extinguishing Media:USE WATER SPRAY.  
Fire  
Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL  
FIRE EXPOSED CONTAINERS WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:STRONG OXIDIZER. CONTACT WITH OTHER  
MATERIAL MAY CAUSE FIRE.

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

Spill Release Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT CLTHG.  
STOP LEAK IF YOU CAN DO SO W/O RISK. KEEP COMBUSTIBLES (WOOD,  
PAPER, OIL

, ETC.) AWAY FROM SPILLED MATERIAL. FLUSH AREA W/FLOODING AMTS OF WATER. (USE CAUTION.)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CNTNR TIGHTLY CLOSED. STORE SEPARATELY & AWAY FROM FLAMMABLE & COMBUSTIBLE MATERIALS. KEEP CNTNRS OUT OF SUN & AWAY FROM HEAT. STORE ABOVE 6C.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:RESPIRATORY PROTECTION REQUIRED IF AIRBORNE CONCENTRATION EXCEEDS TLV. AT CONCENTRATIONS UP TO 5 PPM, A NIOSH/MSHA APPRVD CHEMICAL CARTRIDGE RESPIRATOR W/ACID CARTRIDGE IS RECOMMENDED. ABOVE THIS LEVEL, NIOSH/MSHA APPRVD SCBA IS ADVISED.

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

Protective Gloves:SYNTHETIC RUBBER GLOVES.

Eye Protection:CHEMICAL WORKERS GOGGLES,(SEE SUPP DATA)

Other Protective Equip

ment:UNIFORM, PROTECTIVE SUIT.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EMER PH #: (NATIONAL RESPONSE CENTER); 800- 424-9300 (CHEMTREC). FIRE FIGHT PROC: W/O RISK. USE WATER TO KEEP FIRE- EXPOSED CONTAINERS COOL. EYE PROT: MAY ADD FULL LENGTH FACESHIELD TO GOGGLES .

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

HCC:T2

Boiling Pt:B.P. Text:138F,59C

Melt/Freeze Pt:M.P/F.P Text:19.0F,-7.2C

Vapor Pres:226

Vapor Density:7

.1(AIR=1)

Spec Gravity:3.12

Solubility in Water:MODERATE (1-10%)

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG REDUCING AGENTS, COMBUST MATLS, MOST COMMON METALS, POTASSIUM, ALKALIES, ORG MATLS, ALCOHOLS, AMINES & AMMONIA.

Stability Condition to Avoid:HEAT, MOISTURE, SUNLIGHT.

Hazardous Decomposition Products:HYDROGEN BROMIDE.

=====

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

Waste Disposal Methods:DISPOSE I/A/W ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. EPA HAZARDOUS WASTE NUMBER:D001, D002 (IGNITABLE, CORROSIVE WASTE).

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.