

EMERGENCY PHONE.....: 800-255-3924  
PREPARATION/REVISION DATE: 01/01/01TRADE NAME/SYNONYMS...: BUTANE FOR 14.212, 214, & 217  
CHEMICAL NAME/SYNONYMS: ISOBUTANE  
CHEMICAL FAMILY.....:  
FORMULA.....:  
PRODUCT CODE.....: 14.220

## \*\*\*\*\* HAZARDOUS INGREDIENTS \*\*\*\*\*

DOES PRODUCT CONTAIN HAZARDOUS INGREDIENTS? (Y,N,N/A,N/I) : Y  
CHEMICAL/Common Name CAS-NUMBER % PEL-OSHA TLV-ACGIH  
ISOBUTANE 75-28-5 NE 800PPM

DOES PRODUCT CONTAIN CARCINOGENS (NTP, IARC, OR OSHA)? (Y,N,N/A,N/I): N/A

## \*\*\*\*\* HEALTH HAZARD DATA \*\*\*\*\*

HEALTH EFFECTS (ACUTE AND CHRONIC)  
NON TOXIC. CAUSES DROWSINESS IN A SHORT TIME IN CONCENTRATIONS OF 1%  
(THERE ARE NO APPARENT ILL EFFECTS IN BREATHING CONCENTRATIONS OF 5% FOR  
FIVE HOURS). INHALATION-DIZZINESS OR NAUSEA FROM LACK OF OXYGEN.  
SKIN-LOCAL FREEZING.PRIMARY ROUTES OF ENTRY  
MOUTH, NOSE, AND SKINMEDICAL CONDITIONS AGGRAVATED BY EXPOSURE  
NONE KNOWNEMERGENCY FIRST AID PROCEDURES  
FOR SKIN EXPOSURE TO THE LIQUID, TREAT FOR FROSTBITE. FOR EYE EXPOSURE TO  
LIQUID, TAKE TO A PHYSICIAN.

## \*\*\*\*\* CHEMICAL DATA \*\*\*\*\*

BOILING POINT(F).... 31.1 SPECIFIC GRAVITY(WATER=1)..... .580  
VAPOR PRESSURE(MMHG) 2378 PERCENT VOLATILE BY VOLUME(%)..... 1  
VAPOR DENSITY(AIR=1) 1 EVAP RATE( BUTYL ACETATE =1) 1

SOLUBILITY IN WATER.. NEGLIGABLE

APPEARANCE AND ODOR INFORMATION  
AT AMBIENT PRESSURE FORMS CLEAR GAS WITH SULFUR ODOR

## \*\*\*\*\* PHYSICAL HAZARD DATA \*\*\*\*\*

FLASH POINT (METHOD USED) -100 EST. FLAMMABLE LIMITS-LEL= 1.4 UEL= 9.5

EXTINGUISHING MEDIA  
DRY CHEMICAL, FOAM, CARBON DIOXIDESPECIAL FIRE FIGHTING PROCEDURES  
CONTAIN FIRE TO IMMEDIATE AREAL DISPERSE LIQUID OR VAPOR IF SPILLED OR LEAK  
OCCURS. USE WATER SPRAY TO COOL EXPOSED CONTAINERS.UNUSUAL FIRE AND EXPLOSION HAZARDS  
FIRE HAZARD IS DANGEROUS, CAN REACT WITH OXIDIZING MATERIALS. MIXTURES WITH  
AIR ARE HIGHLY FLAMMABLE.

## \*\*\*\*\* REACTIVITY DATA \*\*\*\*\*

INCOMPATIBILITY (MATERIALS TO AVOID)  
REACTS VIGOROUSLY WITH OXIDIZING MATERIALS.HAZARDOUS DECOMPOSITION PRODUCTS  
NONE EXCEPT ASPHYXIATION BY OXYGEN DISPLACEMENTWILL HAZARDOUS POLYMERIZATION OCCUR  
NO

CONDITIONS TO AVOID/POLYMERIZATION

NOT ESTABLISHED

IS THE PRODUCT STABLE  
YES

CONDITIONS TO AVOID/STABILITY  
HIGH TEMPERATURES. IGNITION RESOURCES.

\*\*\*\*\* SPILL AND LEAK PROCEDURES \*\*\*\*\*

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
REMOVE ALL IGNITION SOURCES; FLAMES, SPARKS, STATIC ELECTRICITY & ELECTRICAL.  
VENTILATE AREA. DISPERSE WITH WATER SPRAY KEEP PERSONNEL UP-WIND.

WASTE DISPOSAL METHOD  
BURN IF BURNING UNIT IS AVAILABLE. IF NOT, DISCHARGE AT MODERATE RATE IN  
WELL VENTILATED AREAS AWAY FROM HEAT AND ALL IGNITION SOURCES.

\*\*\*\*\* EXPOSURE CONTROL INFORMATION \*\*\*\*\*

VENTILATION

LOCAL EXHAUST	FOR SMALL ENCLOSURES	MECHANICAL (GEN)	ADEQUATE FOR STORAGE
SPECIAL.....	N/A	OTHER.....	N/A

RESPIRATORY PROTECTION  
N/A

PROTECTIVE GLOVES  
NOT REQUIRED FOR NORMAL HANDLING.

OTHER PROTECTIVE EQUIPMENT  
SAFETY GLASSES.

OTHER ENGINEERING CONTROLS  
N/A

WORK PRACTICES  
AVOID SKIN OR EYE CONTACT. DO NOT BREATHE VAPORS

HYGENIC PRACTICES  
SAME AS WORK PRACTICES

\*\*\*\*\* SPECIAL PRECAUTIONS \*\*\*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
HAZARD PRIMARILY DUE TO FLAMMIBILITY. STORE IN WELL VENTILATED AREA AWAY  
FROM HEAT AND ALL IGNITION SOURCES.

MAINTENANCE PRECAUTIONS  
USE WITH ADEQUATE VENTILLATION

OTHER PRECAUTIONS  
USE EXPLOSION PROOF EQUIPMENT

OTHER COMMENTS  
USE IN WELL VENTILATED AREAS