

E M SCIENCE DIV OF E M INDUSTRIES INC -- PX1815;1816;1824/B;N-PROPYL ALCOHOL --
6810-01-119-7846

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

Product ID:PX1815;1816;1824/B;N-PROPYL ALCOHOL

MSDS Date:03/01/1991

FSC:6810

NIIN:01-119-7846

MSDS Number: BJNPV

=== Responsible Party ===

Company Name:E M SCIENCE DIV OF E M INDUSTRIES INC

Address:400 DEMOCRAT RDD

Box:70

City:GIBBSTOWN

State:NJ

ZIP:08027-0070

Countr

y:US

Info Phone Num:800-222-0342/609-423-6300

Emergency Phone Num:800-222-0342//800-424-9300(CHEMTRE)

CAGE:63612

=== Contractor Identification ===

Company Name:E M SCIENCE DIV OF E M INDUSTRIES INC

Address:480 DEMOCRAT ROAD

Box:70

City:GIBBSTOWN

State:NJ

ZIP:08027

Country:US

Phone:800-222-0342/609-423-6300

CAGE:63612

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

Ingred Name:N-PROPYL ALCOHOL

CAS:71-23-8

RTECS #:UH8225000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMEN

DED
OSHA PEL:200 PPM
ACGIH TLV:S,200PPM/250STEL; 95

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

LD50 LC50 Mixture:LD50 RAT ORAL 1870 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SEE SIGNS AND SYMPTOMS OF
OVEREXPOSURE.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:EYES:VAPOR IRRITATING.SKIN:N/K
.INGESTION/INHALATION:HEADACHE,NAUSEA,DIZZINESS,INCO
ORDINATION.VAPO
R IRRITATING TO NOSE AND THROAT.NARCOTIC AT HIGH CONCENTRATIONS.
Medical Cond Aggravated by Exposure:DATA NOT AVAILABLE.

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

First Aid:GET MEDICAL ASSISTANCE FOR ALL CASES OF
OVEREXPOSURE.EYES:IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT
LEAST 15 MINUTES.SKIN:WASH THOROUGHLY WITH SOAP AND
WATER.INGESTION:IF CONSCIOUS,INDUCE VOMITIN G.INHALATION:MOVE TO
FRESH AIR.GIVE ARTIFICIAL RESPIRATION IF
BREATHING HAS STOPPED.

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

Flash Point Method:TCC
Flash Point:74.0F,23.3C
Lower Limits:2.1
Upper Limits:13.7
Extinguishing Media:WATER SPRAY,DRY CHEMICAL,CARBON DIOXIDE,FOAM.
Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND
FULL PROTECTIVE EQUIPMENT.
Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR,CAN TRAVEL
DISTANCES ALONG THE GROUND,AND FLASHBACK AT THE SOURCE.

===== Accide

ntal Release Measures =====

Spill Release Procedures:ELIMINATE IGNITION SOURCES.COLLECT ON ABSORBENT.FLUSH AREA WITH WATER.

Neutralizing Agent:N/K

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED.STORE IN A COOL,WELL-VENTILATED AREA AWAY FROM IGNITION SOURCES AND OXIDIZERS.DO NOT BREATHE VAPOR.DO NOT GET IN EYES.

Other Precautions:AVOID SKIN CONTACT.ELECTRICALLY GROUND ALL EQUIPMENT WHEN H

ANDLING THIS PRODUCT.RETAINED RESIDUE MAY MAKE EMPTY CONTAINERS HAZARDOUS.USE CAUTION!

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

Respiratory Protection:MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.

Ventilation:MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.

Protective Gloves:NEOPRENE,NITRILE OR EQUIVALENT.

Eye Protection:CHEM. SAFETY GOGGLES,(FACE SHIELD REQ U.)

Other Protective Equipment:EYE WASH AND SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.DO NOT TAKE INTERNALLY.

Supplemental Safety and Health

MFR DIV:(BIONETICS CORP OF CINCINNATI,OH).LDLO:HUMAN ORAL 5700 MG/KG.ROUTES OF ENTRY:INGESTION/INHALATION .SKIN CONTACT (MFR).

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

HCC:F3

Boiling Pt:B.P. Text:207F,97C

Melt/Freeze Pt:M.P/F.P Text:-197F,-127C

Vapor Pres:15

Vapor Density:2.1

Spec Gravity:0.804

Evaporation Rate & Reference:1.3 (N-BUTYL ACETATE=1)

Solubility in Water:MISCIBLE

Appearance and Odor:LIQUID;;CLEAR,COLORLESS;ALCOHOLIC ODOR.

Percent Volatiles by Volume:>99

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:HIGH HEAT,SOURCES OF IGNITION.

Hazardous Decomposition Products:-CO*X.

Conditions to Avoid Polymerization:DATA NOT AV

AILABLE.

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH
FEDERAL, STATE AND LOCAL REGULATIONS. COORDINATION WITH SUPPORTING
INSTALLATION AND/OR MACOM ENVIRONMENTAL COORDINATION PRIOR TO
DISPOSAL IS RECOMMENDED TO DETERMINE APPROPRIATE DISPOSAL METHODS

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.