

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-222/2224-44-4.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
2224-44-4  
**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
BIOBAN P1487

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**

N/P

**Ventilation:**  
MECH(GEN)OR LOCAL EXHAUST THAT PROVIDES ADEQUATE VENTILATION

**Protective Gloves:**

IMPERVIOUS

**Eye Protection:**  
SAFETY/CHEM GOGGLES

**Other Protective Equipment:**  
Equipment 4 FULL WORK CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT.

**Work Hygienic Practices:**

N/P

**Supplemental Safety and Health:**  
MSDS DATED:MAY 1, 1986.

## Health Hazards Data

**LD50LC50Mixture:**

N/K

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

N/P

**Ingestion:**

YES

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE:SKIN AND EYE IRRITATION. CHRONIC:MAY CAUSE DERMATITIS IN SOME INDIVIDUALS

**Explanation Of Carcinogenicity:**

N/R

**Signs And Symptions Of Overexposure:**

N/P

**Medical Cond Aggravated By Exposure:**  
PRE-EXISTNG CONDITIONS MAY BE WORSEN.

**First Aid:**  
INHALE:REMOVE TO FRESH AIR, GIVE CPR/O\*2 IF NEED;EYES/SKIN:FLUSH W LG AMTS H\*20 FOR 15 MIN;INGEST:RINSE MOUTH; GET MEDICAL ATTENTION FOR EYES, BREATHING DIFFICULTY, OR OTHER SYMPTOMS OF OVEREXPOSURE.

**Spill Release Procedures:**  
USE PROPER PERSONAL PROTECTION;TREAT AS LUBRICATING OIL SPILL;ABSORB WITH CLAY OR INERT ABSORBENT MATERIAL AND RECOVER FOR PROPER DISPOSAL.

**Neutralizing Agent:**

N/P

**Waste Disposal Methods:**  
DISPOSE OF COLLECTED MATERIAL IN ACCORDANCE WITH LOCAL,STATE AND FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
KEEP FROM FREEZING;KEEP CONTAINERS TIGHTLY CLOSED UNTIL USED. 3

**Other Precautions:**  
AVOID CONTACT WITH EYES & SKIN;DO NOT BREATHE VAPORS.

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P

**Flash Point:**

**Flash Point Text:**

NONE

**Autoignition Temp:**

**Autoignition Temp Text:**

N/R

**Lower Limits:**

N/R

**Upper Limits:**

N/R

**Extinguishing Media:**  
NON-FLAMMABLE;USE SUITABLE MEDIA FOR SURROUNDING FIRES.

**Fire Fighting Procedures:**  
NONE INDICATED;USE NIOSH APPROVED SCBA IN AN ENCLOSED AREA.

**Unusual Fire/Explosion Hazard:**

NONE NOTED

## Physical/Chemical Properties

**HCC:**

N1

**NRC/State LIC No:**

N/R

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
212F/100C

**Melt/Freeze Pt:**

**M.P/F.P Text:**

N/K

**Decomp Temp:**

**Decomp Text:**

N/K

**Vapor Pres:**

N/K

**Vapor Density:**

>1.0

**Volatile Org Content %:**

**Spec Gravity:**

1.0

**VOC Pounds/Gallon:**

**PH:** 8.0

**VOC Grams/Liter:**

**Viscosity:**

N/P

**Evaporation Rate & Reference:**

**Solubility in Water:**  
COMPLETELY MISCIBLE

**Appearance and Odor:**  
YELLOW LIQUID WITH MILD ODOR

**Percent Volatiles by Volume:**

97

**Corrosion Rate:**

N/K

## Reactivity Data

**Stability Indicator:**

YES

**Stability Condition To Avoid:**  
EXTREME HEAT. 5

**Materials To Avoid:**  
STRONG OXIDIZERS/ACIDS.

**Hazardous Decomposition Products:**  
NORMAL PRODUCTS OF COMBUSTION ARE CO AND CO\*2

**Hazardous Polymerization Indicator:**

NO

**Conditions To Avoid Polymerization:**

NONE

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P