

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-484/4845-99-2.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

4845-99-2

Code:

M

RTECS:**Code:**

X

Name:

BRUCINE SULFATE Environmental Wt: Other REC Lim

Other REC Limits:

NOT ESTABLISHED

OSHA PEL:

NOT ESTABLISHED

Code:

M

OSHA STEL:**Code:****ACGIH TLV:**

NOT ESTABLISHED

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

NONE REQUIRED UNDER NORMAL CONDITIONS.

Ventilation:

NORMAL ROOM VENTILATION.

Protective Gloves:

NONE REQUIRED UNDER NORMAL CONDITIONS.

Eye Protection:

NONE REQUIRED UNDER NORMAL CONDITIONS.

Other Protective Equipment:

Equipment 5 NONE.

Work Hygienic Practices:

STANDARD HYGIENIC PRACTICES.

Supplemental Safety and Health:

NONE.

Health Hazards Data

LD50/LC50 Mixture:

LD50 (ORAL RAT) IS 1950MG/KG (DEET)

Route Of Entry Inds - Inhalation:

YES

Skin:

NO

Ingestion:

NO

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO 3

Health Hazards Acute And Chronic:

ACUTE:SKIN IRRITATION, DEFATTING. EXCESSIVE EXPOSURE CAN CAUSE DIZZINESS, HEADACHE, ETC. CHRONIC:NO HEALTH HAZARD KNOWN.

Explanation Of Carcinogenicity:

NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Signs And Symptoms Of Overexposure:

EYES:IRRITATION. SKIN:IRRITATION AND DEFATTING WHEN CONTACT IS PROLONGED. INHALATION:DIZZINESS, DROWSINESS, HEADACHE, LOSS OF APPETITE, THROAT IRRITATION. INGESTION:NAUSEA, VOMITING, DIARRHEA AND CENTRAL NERVOUS SYSTEM DEPRESSION.

Medical Cond Aggravated By Exposure:

PERSONS WITH A HISTORY OF RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:

EYES:FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.SEE DOCTOR. SKIN:REMOVE CONTAMINATED CLOTHING.WASH SKIN WITH SOAP AND WATER FOR 15 MINUTES. INHALATION:REMOVE TO FRESH AIR.GIVE OXYGEN/CP R IF NEEDED,SEE DOCTOR. INGESTION:DO NOT INDUCE VOMIT.GIVE WATER. SEE DOCTOR IMMEDIATELY.NOTHING BY MOUTH IF UNCONSCIOUS.

Spill Release Procedures:

REMOVE PERSONNEL. ELIMINATE IGNITION SOURCES. WEAR PROTECTIVE CLOTHING AND EQUIPMENT. WIPE OR SOAK UP SMALL SPILLS WITH PAPER TOWEL OR INERT ABSORBENT. PLACE IN APPROPRIATE DISPOSAL CONTAINER. FLUSH AREA WITH PLENTY OF WATER.

Neutralizing Agent:

NONE APPLICABLE FOR THIS MATERIAL

Waste Disposal Methods:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

Handling And Storage Precautions:

STORE IN COOL, DRY PLACE AWAY FROM SUNLIGHT. DO NOT STORE NEAR IGNITION SOURCES, OPEN FLAMES OR ELECTRICAL EQUIPMENT. KEEP AWAY FROM FOOD.

Other Precautions:

4 KEEP FROM MOISTURE. DO NOT DISCARD INTO TRASH COMPACTOR OR PLACE CONTENTS IN PUBLIC WATER SYSTEMS.

Fire and Explosion Hazard Information

Flash Point Method:

PMCC

Flash Point:

=22.8C, 73.F

Flash Point Text:**Autoignition Temp:**

N/K

Autoignition Temp Text:

N/K

Lower Limits:

3.3(ETH.ALC)

Upper Limits:

19(ETH.ALC)

Extinguishing Media:

USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:

REMOVE PERSONNEL. ELIMINATE IGNITION SOURCES. WEAR SCBA AND PROTECTIVE EQUIPMENT. USE WATER FOG TO PROTECT PERSONNEL AND TO KEEP OUTSIDE OF CONTAINERS COOL.

Unusual Fire/Explosion Hazard:

FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

Physical/Chemical Properties

HCC:

F3

NRC/State Lic No:

N/R

Net Prop WT For Ammo:

100

Boiling Point:

=78.3C, 173.F

B.P. Text:

N/R

Melt/Freeze Pt:

=43.C, -45.4F

M.P/F.P Text:

N/R

Decomp Temp:

N/R

Decomp Text:

N/R

Vapor Pres:

55.7

Vapor Density:

> AIR

Water Solubility:

USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Spec Gravity:

0.95-0.97

VOC Pounds/Gallon:

N/R

PH:

N/R

VOC Grams/Liter:

N/R

Viscosity:

N/K

Evaporation Rate & Reference:

FASTER THAN BUTYL ACETATE

Solubility in Water:

N/K

Appearance and Odor:

PALE STRAW LIQUID, SWEET ODOR.

Percent Volatiles by Volume:

100

Corrosion Rate:

UNKNOWN

Reactivity Data**Stability Indicator:**

YES

Stability Condition To Avoid:

HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Materials To Avoid:

STRONG OXIDIZING AGENTS. WATER WILL SLOWLY HYDROLYZE THE ACTIVE INGREDIENT AND DECREASE ITS EFFECTIVENESS AS REPELLENT.

Hazardous Decomposition Products:

CARBON DIOXIDE, CARBON MONOXIDE.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

NOT APPLICABLE

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

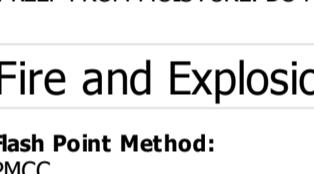
Other Information

Other Information:

N/P

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