

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-109/109-87-5.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
109-87-5

Code:
M

RTECS:
PA8750000

Code:
M

Name:
METHYLAL (DIMETHOXYMETHANE), 1.9%

Other REC Limits:
NONE RECOMMENDED

OSHA PEL:
1000 PPM

Code:
M

OSHA STEL:

Code:

ACGIH TLV:
1000 PPM; 9293

Code:
M

ACGIHSTEL:
N/P

Code:

Control Measures

Respiratory Protection:
4 IF TLV IS EXCEEDED THEN USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. AIR-SUPPLIED OR FILTERING TYPE WITH ORGANIC VAPOR CARTRIDGES ARE RECOMMENDED.

Ventilation:
LOCAL AND MECHANICAL EXHAUST RECOMMENDED.

Protective Gloves:
POLYVINYL ALCOHOL RECOMMENDED

Eye Protection:
CHEMICAL SAFETY GOGGLES &FACESHIELD

Other Protective Equipment:
Equipment EYE WASH STATION, SAFETY SHOWER, LONG SLEEVE AND LONG PANTS

Work Hygienic Practices:
OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health:
N/P

Health Hazards Data

LD50LC50Mixture:
ORAL LD50 IS UNKNOWN

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
NO

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
ACUTE- MAY CAUSE DIZZINESS/NARCOSIS IN HIGH VAPOR CONCENTRATIONS. WILL CAUSE DEFATTING OF SKIN. LONG TERM EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LUNG, LIVER/KIDNEY DAMABE. MAY AFFECT CNS. ASPIRATION HAZARD IF SWALLOWED. MAY IRRITATE EYES, SKIN. CHRONIC- UNKNOWN. TARGET ORGANS:LIVER, LUNGS, KIDNEY, EYES.

Explanation Of Carcinogenicity:
NONE

Signs And Symptions Of Overexposure:
3 IRRITATION OF EYES, SKIN, RESPIRATORY TRACT, DIZZINESS, DIFFICULTY IN BREATHING, SKIN REDNESS, VOMITING

Medical Cond Aggravated By Exposure:
HEART DISEASE, RESPIRATORY DISORDERS

First Aid:
CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:D O NOT INDUCE VOMITING. CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY.

Spill Release Procedures:
WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA. REMOVE WITH INERT ABSORBENT COMPOUND. PUT INTO CONTAINER. DISPOSE AS HAZARDOUS WASTE.

Neutralizing Agent:
NOT RELEVANT

Waste Disposal Methods:
DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

Handling And Storage Precautions:
STORE IN A COOL, VENTILATED AREA BELOW 120F. DO NOT PUNCTURE OR INCINERATE. HEAT FROM SUNLIGHT, STOVES, HOT WATER COULD CAUSE CONTAINER TO BURST.

Other Precautions:
"EMPTY" CONTAINERS MAY RETAIN RESIDUE AND CAN BE DANGEROUS. KEEP OUT OF REACH OF CHILDREN. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. DO NOT BREATHE VAPORS. DO NOT TAKE INTERNALLY. KEEP AWAY FROM SPARKS OR OPEN FLAME.

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
NON-FLAMMABLE

Autoignition Temp:

Autoignition Temp Text:
N/R

Lower Limits:
1.8

Upper Limits:
12.0

Extinguishing Media:
WATER FOG, CARBON DIOXIDE OR DRY CHEMICAL

Fire Fighting Procedures:
WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

Unusual Fire/Explosion Hazard:
HEATED CANS MAY BURST.

Physical/Chemical Properties

HCC:
V2

NRC/State LIC No:
NOT RELEVANT

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
-40 TO 191F

Melt/Freeze Pt:

M.P/F.P Text:
NOT KNOWN

Decomp Temp:

Decomp Text:
UNKNOWN

Vapor Pres:
2999 @ 70F

Vapor Density:
4.0

Volatile Org Content %:

Spec Gravity:
1.0

VOC Pounds/Gallon:

PH: N/R

VOC Grams/Liter:

Viscosity:
UNKNOWN

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

Solubility in Water:
NIL

Appearance and Odor:
CLEAR LIQUID - ETHEREAL ODOR

Percent Volatiles by Volume:
N/K

Corrosion Rate:
UNKNOWN

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
HIGH TEMPERATURES

Materials To Avoid:
STRONG OXIDIZING AGENTS, ACTIVE METALS

Hazardous Decomposition Products:
CARBON DIOXIDE, HYDROCHLORIC &HYDROFLUORIC ACIDS, PHOSGENE AND SIO2

Hazardous Polymerization Indicator:
NO 5

Conditions To Avoid Polymerization:
NOT RELEVANT

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