

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-67/67-68-5.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

67-68-5

Code:

M

RTECS:

PV6210000

Code:

M

Name:

DIMETHYL SULFOXIDE;DMSO; CAS #67-68-3

Other REC Limits:

N/P

OSHA PEL:

N/P

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

N/K

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN.

Ventilation:

LOCAL AND GENERAL VENTILATION NECESSARY TO KEEP AIR CONCENTRATION BELOW LEVELS OF CONCERN.

Protective Gloves:

RECOMMENDED

Eye Protection:

CHEMICAL GOGGLES, FULL FACESHIELD.

Other Protective Equipment:

Equipment IMPERVIOUS PROT CLOTHING INCLUDING BOOTS,LAB COAT,APRON OR COVERALLS,MAINTAIN EYEWASH FOUNTAIN,QUICK DRENCH FACILITY.

Work Hygienic Practices:

WASH THOROUGHLY AFTER HANDLING. 4

Supplemental Safety and Health:

VP:0.37 MMHG @ 68,20C,FL PT:192F,89C (CC). AUTOIGNIT TEMP:419F,215C.

Health Hazards Data

LD50/LC50 Mixture:

LD50 RAT ORAL 17500 MG/KG.

Route Of Entry Inds - Inhalation:

N/P

Skin:

N/P

Ingestion:

N/P

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

ABSORPTION MAY AFFECT BLOOD,REPEATED SKIN APPLICATION MAY CAUSE SCALING DERMATITIS,REPEATED ORAL DOSES MAY AFFECT THE LIVER AND KIDNEYS.

Explanation Of Carcinogenicity:

METHYL SULFOXIDE (DMSO):CARCIN IN HUM NOT DETERMINED,INADEQUATE NEGATIVE EVIDENCE FOR CARCIN IN ANIMALS (GENE-TOX 1987). 2

Signs And Symptoms Of Overexposure:

EYES:REDNESS,PAIN,BLURRED VISION,SKIN:AN IRRITANT CAUSING REDNESS,ITCHING & SCALING,READILY ABSORBED THROUGH SKIN, GARLIC-LIKE TASTE & ODOR MAY DEVELOP ON BTH & SKIN,TRANSIENT DISTURBANCES OF COLOR VISION,PHOBIA,HEADACHE,DIARRHEA & DERMATITIS MAY RESULT FROM SKIN APPLICATIONS,INGESTION:ABDOMINAL PAIN (SEE SUP DAT)

Medical Cond Aggravated By Exposure:

PERSON W/PRE-EXISTING SKIN OR EYES DISORDERS OR IMPAIRED LIVER OR KIDNEY FUNC MAY BE MORE SUSCEPTIBLE TO EFTS OF THIS PROD,TROPICAL APPLICATION ENHANCES DERMAL ABSORPTION OF MANY OTHER (SEE SUPP DATA)

First Aid:

EYES:WASH W/PLENTY OF H2O FOR AT LEAST 15 MIN,CALL MD,SKIN:FLUSH W/PLENTY OF H2O FOR AT LEAST 15 MIN WHILE REMOVING CONTAM CLTHG & SHOES,WASH CLTHG BEFORE REUSE,CALL MD IMMED,INGEST:INDUCE VOMITING IM MED BY GIVING 2 GLASSES H2O (MILK IF AVAIL) & STICKING FINGER DOWN THROAT,CALL MD IMMED,NEVER GIVE ANYTHING BY MOUTH TO UNCON PERSON,INHAL:MOVE TO FRESH AIR,GET MED ATTN FOR ANY BTHG DIFFICULTY.

Spill Release Procedures:

VENT & EVACUATE AREA,CLEAN-UP PERS MAY REQ PROT CLTHG & RESP PROT FROM VAP,ALLOW ONLY QUALIFIED TO HNDL SPILL,CONTAIN & REMOVER SPILLS WHEN POSS,COVER LARGE SPILLS W/EARTH,SAND/INERT SOLID,SCOOP UP W /NON-SPARKING TOOLS & PLACE IN APPROPRIATE CNTNR.

Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:

DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS (FP N),WASTE MAY BE DISPOSED IN A RCRA APPROVED FACILITY OR BURNED IN A RCRA APPROVED INCINERATOR.

Handling And Storage Precautions:

KEEP IN TIGHTLY CLSD CNTNR,STORE IN COOL, DRY, VENTILATED AREA AWAY FROM SOURCES OF HEAT, MOISTURE AND INCOMPATIBILITIES,PROTECT FROM PHYSICAL DAMAGE.

Other Precautions:

AVOID BREATHING MIST,KEEP CONTAINER CLOSED, USE WITH ADEQUATE VENTILATION, CONTACT LENSES SHOULD NOT BE WORN AROUND THIS MATERIAL.

Fire and Explosion Hazard Information

Flash Point Method:

OC 3

Flash Point:

203F,95C

Autoignition Temp:

215C

Lower Limits:

2.6%

Upper Limits:

28.5%

Extinguishing Media:

DRY CHEMICAL,FOAM OR CARBON DIOXIDE.

Fire Fighting Procedures:

USE NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard:

MODERATE FIRE HAZARD WHEN EXPOSED TO HEAT, FLAME. ABOVE FLASH PT,VAP-AIR MIXTURE IS EXPLOSIVE. TOXIC FUMES MAY BE RELEASED DURING FIRE.

Physical/Chemical Properties

HCC:

N1

NRC/State IC No:**Net Prop WT For Ammo:****Boiling Point:****B.P. Text:**

702F,972C

Melt/Freeze Pt:**M.P./F.P. Text:**

65.2F,18.5C

Decomp Temp:**Decomp Text:**

UNKNOWN

Vapor Pres:

SEE SUPP

Vapor Density:

2.7(AIR=1)

Volatile Org Content %:**Spec Gravity:**

1.10 (WATER=1)

VOC Pounds/gallon:**PH:**

N/K

VOC Grams/liter:**Viscosity:****Evaporation Rate & Reference:**

4.3 (CCL4-1)

Miscibility in Water:

MISCIBLE

Appearance and Odor:

CLEAR, COLORLESS, ODORLESS LIQUID; HYDROSCOPIC.

Percent Volatiles by Volume:

N/K

Corrosion Rate:

UNKNOWN

Reactivity Data

Stability Indicator:

YES

Stability Under Ordinary Conditions:

CONDITIONS OF USE AND STORAGE, HYDROSCOPIC LIQUID.

Materials To Avoid:

STRONG OXIDANTS, ACYLHALIDES, ARYLHALIDES, BROMOBENZOYL ACETANILIDE, MAGNESIUM PERCHLORATE, PERCHLORIC ACID, SODIUM HYDROXIDE

Hazardous Decomposition Products:

5 SO2 AT TEMP ABOVE 213F,100C,HAZ THERMO-OXIDATIVE DEGRADATION PROD FROM DMOS INCL FORMALDEHYDE, METHYL MERCAPTAN SO2.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

WILL NOT OCCUR.

Toxicological Information

Information:

N/P

MSDS/Transport Information

Information:

N/P

Regulatory Information

Sara Title III Information:

N/P

Federal Regulatory Information:

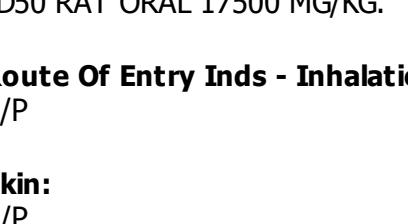
N/P

State Regulatory Information:

N/P

Other Information:

N/P



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