## MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses.

Click <a href="http://www.lookchem.com/cas-63/63-68-3.html">http://www.lookchem.com/cas-63/63-68-3.html</a> for suppliers of this product.

Composition/Information on Ingredient Cas: 63-68-3

Μ

Code:

Code:

Name:

NΡ

NΡ

**NP** Code:

**NP** Code:

NΡ Code:

Code:

**OSHA PEL:** 

**OSHA STEL:** 

**ACGIH TLV:** 

**ACGIHSTEL:** 

Ventilation:

**Protective Gloves:** 

**Eye Protection:** 

**Control Measures** 

CHEMICAL RESISTANT GLOVES

Other Protective Equipment:

**Supplemental Safety and Health:** 

**Health Hazards Data** 

SEE TOXICOLOGICAL INFORMATION.

**Route Of Entry Inds - Inhalation:** 

**Carcinogenicity Inds - NTP:** 

**Health Hazards Acute And Chronic:** 

POSSIBLE MUTAGEN IN HUMANS. 2

**Explanation Of Carcinogenicity:** 

SEE HEALTH HAZARDS.

**Spill Release Procedures:** 

**Waste Disposal Methods:** 

**Handling And Storage Precautions:** 

THOROUGHLY AFTER HANDLING MATERIAL.

**Neutralizing Agent:** 

REGULATIONS (FP N).

**Other Precautions:** 

**Flash Point Method:** 

Flash Point:

N/A

N/P

HCC:

NRC/State LIC No:

**Boiling Point:** 

Melt/Freeze Pt: >280.C, 536.F

M.P/F.P Text: 280C - 282C

**Decomp Temp:** 

**Decomp Text:** 

**Vapor Pres:** 

Vapor Density:

**Spec Gravity:** 

**VOC Pounds/Gallon:** 

**VOC Grams/Liter:** 

**Solubility in Water:** 

**Corrosion Rate:** 

**Stability Indicator:** 

**Materials To Avoid:** 

SULFUR OXIDES.

Information:N/P

Information:N/P

**Appearance and Odor:** CRYSTALLINE SOLID.

**Percent Volatiles by Volume:** 

Reactivity Data

**Stability Condition To Avoid:** 

**Hazardous Decomposition Products:** 

**Hazardous Polymerization Indicator:** 

**Conditions To Avoid Polymerization:** 

**Toxicological Information** 

**Regulatory Information** 

Sara Title III Information: N/P

Federal Regulatory Information: N/P

**State Regulatory Information:** N/P

Other Information

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Other Information:N/P

**MSDS Transport Information** 

STABLE UNDER NORMAL HANDLING PROCEDURES.

AVOID CONTACT WITH STRONG OXIDIZING AGENTS. 5

UPON THERMAL DECOMPOSITION, MAY EMIT TOXIC GASES INCLUDING CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, AND

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from

handling or from contact with the above product. See reverse side of invoice or packing slip for additional

WARRANTY

terms and conditions of sale.

**Evaporation Rate & Reference:** 

N/P

PH: N/P

Viscosity:

**SOLUBLE** 

N/P

N/P

YES

N/P

N/P

**Volatile Org Content %:** 

N/P

**B.P. Text:** 

N/P

**Net Prop WT For Ammo:** 

**Lower Limits:** 

**Upper Limits:** 

**Extinguishing Media:** 

Fire Fighting Procedures:

**Unusual Fire/Explosion Hazard:** 

**Flash Point Text:** 

**Autoignition Temp:** 

**Autoignition Temp Text:** 

Signs And Symptions Of Overexposure:

**Medical Cond Aggravated By Exposure:** 

GIVE ARTIFICIAL RESPIRATION AND CONSUL

VENTILATE AREA AFTER MATERIAL PICKUP IS COMPLETE.

**Work Hygienic Practices:** 

LD50LC50Mixture:

YES

Skin: YES

YES

**IARC:** NO

OSHA: NO

N/P

N/P

First Aid:

Ingestion:

USE A NIOSH APPROVED RESPIRATOR.

WASH THOROUGHLY AFTER HANDLING.

HANDLE IN A CHEMICAL FUME HOOD WITH ADEQUATE VENTILATION.

Equipment ANSI APPROVED EMERGENCY EYEWASH AND DELUGE SHOWER (FP N). 4

INGREDIENT INFORMATION: SYNONYM: MET. MOLECULAR WEIGHT: 149.2. MOLECULAR FORMULA: C\*5H\*11NO\*2S.

ACUTE: MAY BE HARMFUL BY INGESTION, INHALATION OR ABSORPTION THROUGH SKIN. CHRONIC: THERE IS LIMITED EVIDENCE THAT L-METHIONINE IS MUTAGENIC IN LABORATORY CELL CULTURES. UNTIL FURTHER TESTING HAS BEEN DONE, IT SHOULD BE TREATED AS A

SKIN: WASH WITH SOAP AND COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES AND WASH BEFORE WEARING. CONSULT A PHYSICIAN. EYES: FLUSH WITH COPIOUS AMOUNTS OF WATE R FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CONSULT A PHYSICIAN. INHALATION: REMOVE TO FRESH AIR AND MONITOR BREATHING. IF BREATHING BECOMES DIFFICULT, GIVE OXYGEN AND CONSULT A PHYSICIAN. IF BREATHING SS,

EVACUATE AREA. WEAR A NIOSH APPROVED RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS, AND HEAVY RUBBER GLOVES. SWEEP UP AND PLACE IN A SUITABLE CONTAINER. AVOID RAISING DUST. HOLD FOR APPROPRIATE DI SPOSAL. WASH SPILL SITE AND

COUNTRY, FEDERAL, STATE, & LOCAL REGULATIONS ARE VARIED & CHANGE FREQUENTLY. FOR THIS REASON, MANUFACTURER

PROLONGED OR REPEATED EXPOSURE. LAB SHOULD BE EQUIPPED WITH A SAFETY SHOWER AND AN EYE WASH STATION. WASH

3 MATERIAL SHOULD ONLY BE HANDLED BY QUALIFIED, EXPERIENCED PROFESSIONALS.

DRY CHEMICAL POWDER, CARBON DIOXIDE, WATER SPRAY, ALCOHOL OR POLYMER FOAM.

WEAR NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

UPON THERMAL DECOMPOSITION, IT MAY EMIT TOXIC GASES.

Physical/Chemical Properties

Fire and Explosion Hazard Information

RECOMMENDS THAT YOU CONTACT YOUR LOCAL DEPARTMENT OF HEALTH SERVICES FOR INFORMATION ON THE D ISPOSAL OF THIS PRODUCT/ARRANGE FOR DISPOSAL BY A LICENSED DISPOSAL COMPANY. DISPOSE OF IN ACCORDANC E WITH LOCAL, STATE, & FEDERAL

STORE IN A TIGHTLY CLOSED CONTAINER IN A COOL, DRY PLACE (+20C). POSSIBLE MUTAGEN. AVOID CONTACT WITH MATERIAL. AVOID

ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

**Respiratory Protection:** 

Other REC Limits:

L-METHIONINE Environmental Wt: Other REC Limits

**RTECS:** PD0457000