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

Cas: 110-16-7 Code: Μ

**RTECS:** 

Code: Μ

Name:

OM9625000

MALEIC ACID (CERCLA)

NONE RECOMMENDED

NOT ESTABLISHED

**Other REC Limits:** 

**OSHA PEL:** 

**OSHA STEL:** 

**ACGIH TLV:** 

**ACGIHSTEL:** 

Ventilation: **ADEQUATE** 

**RUBBER 4** 

Protective Gloves:

**Eye Protection:** 

**Other Protective Equipment:** 

HANDLING. AVOID CONTACT.

**Supplemental Safety and Health:** 

Health Hazards Data

2 LD50 (ORAL, RAT) IS 708 MG/KG.

**Route Of Entry Inds - Inhalation:** 

**Carcinogenicity Inds - NTP:** 

**Health Hazards Acute And Chronic:** 

**Explanation Of Carcinogenicity:** 

**Signs And Symptions Of Overexposure:** 

**Medical Cond Aggravated By Exposure:** 

TO THE EFFECTS OF THE SUBSTANCE.

**Spill Release Procedures:** 

**Waste Disposal Methods:** 

**Handling And Storage Precautions:** 

**Neutralizing Agent:** SODIUM BICARBONATE

**Other Precautions:** 

**Flash Point Method:** 

N/P

NONE

N/R

COOL.

HCC:

NRC/State LIC No: NOT RELEVANT

**Boiling Point:** 

Melt/Freeze Pt: =140.C, 284.F

M.P/F.P Text:

**Decomp Temp:** 

**Decomp Text: UNKNOWN** 

**Vapor Pres:** 

**Vapor Density:** 

**Spec Gravity:** 

PH: ACIDIC

Viscosity: **NOT RELEVANT** 

**SOLUBLE** 

N/R

YES

NO

**NOT RELEVANT** 

Solubility in Water:

**Corrosion Rate:** 

**Stability Indicator:** 

**EXCESSIVE HEAT** 

**NOT RELEVANT** 

Information:N/P

Information:N/P

**Materials To Avoid:** 

UNKNOWN

**Appearance and Odor:** WHITE POWDER 5

**Percent Volatiles by Volume:** 

Reactivity Data

**Stability Condition To Avoid:** 

**Hazardous Decomposition Products:** CARBON MONOXIDE, CARBON DIOXIDE

**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** 

STRONG OXIDIZING AGENTS, STRONG BASES, STRONG REDUCING AGENTS

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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.

**VOC Pounds/Gallon:** 

**VOC Grams/Liter:** 

**Evaporation Rate & Reference:** 

1.590

**Volatile Org Content %:** 

N/R

**B.P. Text:** 

N/R

**Net Prop WT For Ammo:** 

Flash Point:

**Flash Point Text:** 

**Autoignition Temp:** 

**Lower Limits:** NOT RELEVANT

**Upper Limits:** NOT RELEVANT

**Extinguishing Media:** 

Fire Fighting Procedures:

**Unusual Fire/Explosion Hazard:** 

PRESENCE OF AN IGNITION SOURCE.

Physical/Chemical Properties

**Autoignition Temp Text:** 

WATER TO POLLUTESTREAMS.

UNCONSCIOUSNESS, DIARRHEA, HEADACHE

TRACT, EYES AND SKIN. INHALATION MAY BE FATAL. CHRONIC- UNKNOWN.

CONSCIOUS, WASH OUTMOUTH WITH WATER. GET MEDICAL ATTENTION IMMEDIATELY.

AFTERBURNER AND SCRUBBER. OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS.

Fire and Explosion Hazard Information

3 STORE IN COOL, VENTILATED AREA AWAY FROM INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED.

**Work Hygienic Practices:** 

LD50LC50Mixture:

YES

Skin: YES

YES

**IARC:** NO

OSHA: NO

**NONE** 

First Aid:

Ingestion:

NOT ESTABLISHED

**Control Measures** 

APPROVED DUST RESPIRATOR.

DUST/SPLASH-PROOF SAFETY GOGGLES

**Respiratory Protection:** 

Code:

Code:

Code: Μ

**NP** Code:

Μ

Click <a href="http://www.lookchem.com/cas-110/110-16-7.html">http://www.lookchem.com/cas-110/110-16-7.html</a> for suppliers of this product.

NONE NORMALLY REQUIRED. IF DUSTY CONDITIONS PREVAIL, WORK IN VENTILATION HOOD OR WEAR NIOSH-

Equipment EYE WASH FOUNTAIN, SAFETY SHOWER AND IMPERVIOUS CLOTHING TO PREVENT SKIN CONTACT

OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY AFTER

TARGET ORGANS: EYES, SKIN, RESPIRATORY & GI TRACTS. ACUTE- CORROSIVE. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MATERIAL IS EXTREMELY DESTRUCTIVE TO THE TISSUE OF THE MUCOUS MEMBRANESS AN DUPPER RESPIRATORY

SEVERE IRRITATION, COUGHING, PULMONARY EDEMA, SHORTNESS OF BREATH, VOMITING, DIZZINESS, PAIN, BLURRED VISION,

PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE

RECOVER FOR USE IF NOT CONTAMINATED. WEAR PROTECTIVE SAFETY EQUIPMENT AND USE ADEQUATE VENTILATION. AVOID MAKING DUST. SWEEP UP AND PLACE IN A SUITABLE CONTAINER FOR DISPOSAL. FLUSH SPILL AREA WITH WA TER. DO NOT ALLOW WASH

GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES: FLUSH WITH

WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. CALL PHYSICIAN. SKIN: WASH WITH SOAP & PLENT Y OF WATER. ORAL: IF

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN

DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID INHALATION OF DUSTS. KEEP OUT OF REACH OF CHILDREN. OBEY HAZARD WARNING LABEL. FOR LABORATORY USE ONLY. NOT FOR DRUG, FOOD/HOUSEHOLD USE. USE WITH ADE QUATE VENTILATION.

WATER SPRAY, CARBON DIOXIDE, SAND, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS

AS WITH ANY FINELY DIVIDED ORGANIC SOLID, DUST MAY BE EXPLOSIVE IF MIXED WITH AIR IN CRITICAL PROPORTIONS AND IN THE

WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Composition/Information on Ingredient