

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-69/69-79-4.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
69-79-4  
**Code:**  
M

**RTECS:**  
OO5250000  
**Code:**  
M

**Name:**  
MALTOSE

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
NOT ESTABLISHED  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
NOT ESTABLISHED  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
NONE NEEDED IN NORMAL LABORATORY HANDLING. IF DUSTY SITUATIONS PREVAIL, WORK IN VENTILATION HOOD OR WEAR NIOSH-APPROVED DUST RESPIRATOR OR MASK.

**Ventilation:**  
USE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP DUST LEVELS AS LOW AS POSSIBLE.

**Protective Gloves:**  
LATEX RECOMMENDED

**Eye Protection:**  
SAFETY GLASSES RECOMMENDED

**Other Protective Equipment:**  
Equipment EYE BATH, WASHING FACILITIES, LAB COAT 4

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

**Supplemental Safety and Health:**  
N/P

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 (ORAL, RAT) IS 34,800 MG/KG.

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
NO

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
TARGET ORGANS:EYES. ACUTE- EYES:NO ADVERSE EFFECTS EXPECTED BUT DUST MAY CAUSE MECHANICAL IRRITATION. SKIN:NO ADVERSE EFFECTS EXPECTED. INHALATION:NOT EXPECTED TO BE A 2 HEALTH HAZARD. ORAL:LARGE ORAL DOSES MAY CAUSE GASTROINTESTINAL DISTURBANCES. CHRONIC- UNKNOWN.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptoms Of Overexposure:**  
EYE IRRITATION, ABDOMINAL DISCOMFORT

**Medical Cond Aggravated By Exposure:**  
PERSONS WITH PRE-EXISTING EYE PROBLEMS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

**First Aid:**  
CALL PHYSICIAN IF SYMPTOMS PERSIST. EYE:FLUSH WITH PLENTY OF WATER. HOLD EYELIDS OPEN. SKIN:FLUSH WITH WATER. INHALED:REMOVE TO FRESH AIR. ORAL:IF CONSCIOUS, DRINK 1-2 GLASSES OF WATER & INDUCE VOMITTING. CALL PHYSICIAN. NEVER GIVE FLUID OR INDUCE VOMITTING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

**Spill Release Procedures:**  
FLUSH TO SEWER WITH LARGE AMOUNT OF WATER IF PERMITTED. OTHERWISE, SWEEP UP AND PLACE IN A CONTAINER FOR REUSE OR DISPOSAL. AVOID DUST GENERATION. CLEAN SURFACE WITH WATER TO REMOVE RESIDUAL CONTAMINATION.

**Neutralizing Agent:**  
NOT RELEVANT

**Waste Disposal Methods:**  
WHATSOEVER CANNOT BE SAVED FOR RECOVERY MAY BE BURNED IN AN APPROVED INCINERATOR OR DISPOSED IN AN APPROVED WASTE FACILITY. ENSURE COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN COOL, DRY AREA AWAY FROM STRONG OXIDIZING AGENTS. KEEP CONTAINERS TIGHTLY CLOSED. PROTECT FROM PHYSICAL DAMAGE.

**Other Precautions:**  
DO NOT GET IN EYES. AVOID INHALATION OF DUSTS. KEEP OUT OF REACH OF CHILDREN. FOR LABORATORY USE ONLY. NOT FOR DRUG, FOOD/HOUSEHOLD USE. USE WITH ADEQUATE VENTILATION.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/R

**Lower Limits:**  
NOT RELEVANT

**Upper Limits:**  
NOT RELEVANT

**Extinguishing Media:**  
WATER SPRAY, CARBON DIOXIDE (CO2) OR DRY CHEMICAL (ABC). USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

**Fire Fighting Procedures:**  
WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.

**Unusual Fire/Explosion Hazard:**  
AS WITH ANY FINELY DIVIDED ORGANIC SOLID, DUST MAY BE EXPLOSIVE IF MIXED WITH AIR IN CRITICAL PROPORTIONS AND IN THE PRESENCE OF AN IGNITION SOURCE.

## Physical/Chemical Properties

**HCC:**  
N1

**NRC/State LIC No:**  
NOT RELEVANT

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
DECOMPOSES

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
216F,102C

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN

**Vapor Pres:**  
N/R

**Vapor Density:**  
12.4

**Volatile Org Content %:**

**Spec Gravity:**  
UNKNOWN

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
NOT RELEVANT

**Evaporation Rate & Reference:**  
NOT RELEVANT

**Solubility in Water:**  
APPRECIABLE

**Appearance and Odor:**  
WHITE CRYSTALLINE POWDER - ODORLESS

**Percent Volatiles by Volume:**  
N/R

**Corrosion Rate:**  
N/R

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
EXTREME HEAT, DUST ACCUMULATION 5

**Materials To Avoid:**  
STRONG OXIDIZING AGENTS (NITRIC ACID, POTASSIUM PERMANGANATE, CHLORATES. ETC..)

**Hazardous Decomposition Products:**  
CARBON MONOXIDE, CARBON DIOXIDE MAY BE FORMED.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT RELEVANT

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

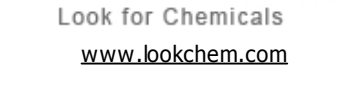
**Information:**N/P

## Regulatory Information

**Sara Title III Information:** N/P  
**Federal Regulatory Information:** N/P  
**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P



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