

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-110/110-17-8.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
110-17-8
Code:
M

RTECS:
LS9625000
Code:
M

Name:
FUMARIC ACID (SARA III)

Other REC Limits:
N/K

OSHA PEL:
NOT ESTABLISHED
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
NOT ESTABLISHED
Code:
M

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
DUST MASK WHERE DUSTINESS IS PREVALENT. MECHANICAL FILTER RESPIRATOR IF EXPOSURE IS PROLONGED.

Ventilation:
LOCAL EXHAUST: DISCRETIONARY. MECHANICAL: RECOMMENDED. GOOD VENTILATION IS ESSENTIAL IN CONFINED/ENCLOSED AREAS.

Protective Gloves:
RUBBER

Eye Protection:
RECOMMENDED

Other Protective Equipment:
Equipment MECHANICAL BARRIER

Work Hygienic Practices:
N/K

Supplemental Safety and Health:
N/K

Health Hazards Data

LD50LC50Mixture:
ORAL RATS LD50: 10,700 MG/KG

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
EYES/SKIN: IRRITATION. INHALATION: IRRITATION OF NASAL/RESPIRATORY PASSAGES. INGESTION: GASTROINTESTINAL IRRITATION.

Explanation Of Carcinogenicity:
NONE

Signs And Symptions Of Overexposure:
EYES/SKIN: IRRITATION. INHALATION: IRRITATION OF NASAL/RESPIRATORY PASSAGES. INGESTION: GASTROINTESTINAL IRRITATION. DUST MAY CAUSE COUGH & SPUTUM PRODUCTION INDISTINGUISHABLE FROM THAT WHICH OCCURS W /CIGARETTE SMOKING.

Medical Cond Aggravated By Exposure:
REACTIVE AIRWAY.

First Aid:
EYE: FLUSH W/LARGE AMOUNTS OF WATER. SKIN: WASH W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: GIVE LARGE AMOUNTS OF WATER & INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Spill Release Procedures:
SWEEP UP & PLACE IN LABELED REFUSE CONTAINER.

Neutralizing Agent:
N/K

Waste Disposal Methods:
DISPOSE OF IN COMPLIANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.

Handling And Storage Precautions:
DON'T MIX W/OTHER SPILL CONTROL AGENTS. STORE IN ORIGINAL CONTAINER OR SPILL-GUN APPLICATOR.

Other Precautions:
N/K

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
N/R

Autoignition Temp:

Autoignition Temp Text:
N/A 3

Lower Limits:
N/R

Upper Limits:
N/R

Extinguishing Media:
N/R

Fire Fighting Procedures:
N/K

Unusual Fire/Explosion Hazard:
N/K

Physical/Chemical Properties

HCC:

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
N/R

Melt/Freeze Pt:

M.P/F.P Text:
N/K

Decomp Temp:

Decomp Text:
N/K

Vapor Pres:
N/R

Vapor Density:
N/R

Volatile Org Content %:

Spec Gravity:
N/R

VOC Pounds/Gallon:

PH: 2.5

VOC Grams/Liter:

Viscosity:
N/P 4

Evaporation Rate & Reference:
N/R

Solubility in Water:

Appearance and Odor:
WHITE TO TAN COLOR, NO ODOR.

Percent Volatiles by Volume:
N/R

Corrosion Rate:
N/K

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
N/R

Materials To Avoid:
STRONG ALKALIES

Hazardous Decomposition Products:
CO2

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
N/R

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