

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-147/147-71-7.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
147-71-7
Code:
M

RTECS:

Code:
X

Name:
TARTARIC ACID

Other REC Limits:
NONE SPECIFIED

OSHA PEL:
NOT ESTABLISHED
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
NOT ESTABLISHED
Code:
M

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

Ventilation:
LOCAL EXHAUST SHOULD BE USED TO MAINTAIN CONCENTRATIONS BELOW TLV.

Protective Gloves:
RUBBER GLOVES

Eye Protection:
FACESHIELD OR CHEMICAL GOGGLES.

Other Protective Equipment:
Equipment CHEMICAL RESISTANT CLOTHING (APRON, BOOTS, ETC.) 6

Work Hygienic Practices:
WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES.

Supplemental Safety and Health:
MSDS PRESENTED BY CAGE 57868 FOR CONTRACT SP0450-96-ZL77.

Health Hazards Data

LD50LC50Mixture:
UNKNOWN

Route Of Entry Inds - Inhalation:
YES

Skin:
NO

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
YES

OSHA:
NO 4

Health Hazards Acute And Chronic:
CONCENTRATED VAPORS MAY CAUSE EYE, NOSE, AND THROAT IRRITATION. COULD CAUSE EYE DAMAGE OR PERMANENT UPPER RESPIRATORY TRACT IRRITATION, PNEUMONITIS. INGESTION: MAY CAUSE CORROSIVE EFFECTS ON THROAT AN D MOUTH.

Explanation Of Carcinogenicity:
1996 TLV BOOK FROM ACGIH SHOWS SULFURIC ACID MIST CONTAINED IN STRONG INORGANIC ACID MISTS IS SUSPECTED (2A) CARCINOGEN.

Signs And Symptions Of Overexposure:
SKIN ITCH, BURNING AND WATERING OF EYES, RUNNY NOSE, COUGHING.

Medical Cond Aggravated By Exposure:
ASTHMA, ALLERGIES,EASILY IRRITATED EYES OR RESPIRATORY PROBLEMS, WILSONS DISEASE.

First Aid:
SKIN AND EYES: REMOVE CONTAMINATED CLOTHING. FLUSH WITH LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION. INGESTION: GET IMMEDIATE MEDICAL ATT ENTION.

Spill Release Procedures:
FIRST VENTILATE THE AREA. WEAR PROTECTIVE CLOTHING. SMOTHER WITH EXCESS NEUTRALIZING AGENT. SCOOP INTO CONTAINER FOR PROPER DISPOSAL. DO NOT FLUSH INTO SEWER SYSTEM.

Neutralizing Agent:
LIME OR SODA ASH

Waste Disposal Methods:
DISCARD ANY PRODUCT (INCLUDING ANY RETAINED MATERIALS OF USE), DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Handling And Storage Precautions:
STORE BETWEEN 45-75 DEG F, OUT OF DIRECT SUNLIGHT , WITH CONTAINERS SEALED TIGHT.

Other Precautions:
DO NOT EAT, DRINK, OR SMOKE IN THE WORK AREA. 5

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:
N/R

Upper Limits:
N/R

Extinguishing Media:
WATER, CARBON DIOXIDE, DRY CHEMICAL.

Fire Fighting Procedures:
WEAR CHEMICAL RESISTANT CLOTHING AND A SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:
UNDER CERTAIN CIRCUMSTANCES AMMONIA VAPORS AND AIR CAN CREATE AN EXPLOSIVE MIXTURE.

Physical/Chemical Properties

HCC:
B3

NRC/State LIC No:
N/R

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
>200F,>93C

Melt/Freeze Pt:

M.P/F.P Text:
UNKNOWN

Decomp Temp:

Decomp Text:
UNKNOWN

Vapor Pres:
UNKNOWN

Vapor Density:
UNKNOWN

Volatile Org Content %:

Spec Gravity:
1.19-1.23

VOC Pounds/Gallon:

PH: 9.3

VOC Grams/Liter:

Viscosity:
UNKNOWN

Evaporation Rate & Reference:
UNKNOWN

Solubility in Water:
COMPLETE

Appearance and Odor:
LIGHT YELLOW TO BROWN, SLIGHT AMINE ODOR

Percent Volatiles by Volume:
N/K

Corrosion Rate:
UNKNOWN

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
NONE SPECIFIED BY MANUFACTURER.

Materials To Avoid:
NONE EXPECTED. 7

Hazardous Decomposition Products:
NONE.

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

Other Information:N/P



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WARRANTY

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