

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-52/52-90-4.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
52-90-4
Code:
M

RTECS:
HA1600000
Code:
M

Name:
L-CYSTEINE *95-1*

Other REC Limits:
N/K

OSHA PEL:
N/K
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
N/K
Code:
M

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
NONE REQUIRED UNDER ROUTINE CONDITIONS OF USE.

Ventilation:
USE W/ADEQUATE VENTILATION. FOLLOW STANDARD MEDICAL PRODUCT HANDLING PROCEDURES.

Protective Gloves:
LATEX, NITRILE, RUBBER 3

Eye Protection:
SAFETY GLASSES

Other Protective Equipment:
Equipment ROUTINE MEDICAL CLOTHING, LAB COAT, GOWN, SMOCK

Work Hygienic Practices:
REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH HANDS THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health:
SPILL CONT'D: USE PROPER PROTECTIVE EQUIPMENT. CLEAR/PROTECT PEOPLE. ABSORB W/POLYPADS/OTHER APPROPRIATE MATERIALS. AVOID SPLASHING/SPRAYING LIQUID. RINSE AREA THOROUGHLY W/SOAP & WATER. PLACE IN DOUB LE PLASTIC BAG. DISPOSE OF IAW/FEDERAL,STATE & LOCAL REGULATIONS.

Health Hazards Data

LD50LC50Mixture:
ORAL LD50(RAT): 1890 MG/KG

Route Of Entry Inds - Inhalation:
YES

Skin:
NO

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
SKIN/EYES: IRRITATION. INHALATION: IRRITATION. INGESTION: MILDLY TOXIC. MATERIAL MAY BE HARMFUL IF SWALLOWED, INHALED/INJECTED. THE SOLUTION CAN BE MILDLY IRRITATING TO MUCOUS MEMBRANES & THE RESPIRAT ORY TRACT.

Explanation Of Carcinogenicity:
NONE

Signs And Symptions Of Overexposure:
IRRITATION

Medical Cond Aggravated By Exposure:
HYPERSENSITIVE INDIVIDUALS.

First Aid:
SKIN: IMMEDIATELY WASH W/SOAP & WATER & RINSE W/RUNNING WATER FOR 15 MINS. EYES: MINIMUM FLUSHING SHOULD BE 15 MINS. INHALATION: REMOVE TO FRESH AIR & USE ARTIFICIAL RESPIRATION TO 2 SUPPORT VITAL FUNCT IONS. INGESTION: RINSE MOUTH & CALL POISON CONTROL CENTER. DON'T INDUCE VOMITING, IF MEDICAL ATTENTION CAN'T BE OBTAINED. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Spill Release Procedures:
SMALL: (1 VIAL, 10ML) WEAR LATEX/NITRILE GLOVES & SAFETY GLASSES. ABSORB LIQUID W/POLYPADS/OTHER APPROPRIATE MATERIALS. AVOID SPLASHING/SPRAYING LIQUID. RINSE THOROUGHLY W/SOAP & WATER. LARGE:(1000 ML) CLEAR/PROTECT AREA & PEOPLE. (SEE SUPP)

Neutralizing Agent:
N/K

Waste Disposal Methods:
DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS. IF UNALTERED MAY BE DISPOSED OF BY TREATMENT AT A PERMITTED FACILITY/AS ADVISED BY LOCAL HAZARDOUS WASTE REGULATORY AUTHORITY.

Handling And Storage Precautions:
STORE IN ORIGINAL CONTAINER AT 59-86F.

Other Precautions:
AVOID CONTACT IN/ON YOU. ALL NEEDLES, SYRINGES, VIALS & OTHER DISPOSABLE ITEMS CONTAMINATED W/THIS PRODUCT SHOULD BE DISPOSED OF PROPERLY.

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
N/R

Autoignition Temp:

Autoignition Temp Text:
N/A

Lower Limits:
N/R

Upper Limits:
N/R

Extinguishing Media:
WATER SPRAY, CO2, FOAM, DRY CHEMICAL, HALON

Fire Fighting Procedures:
INCIPIENT FIRE RESPONDERS SHOULD WEAR EYE PROTECTION. STRUCTURAL FIRE FIGHTERS WEAR SELF CONTAINED BREATHING APPARATUS & FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:
WHEN HEATED TO DECOMPOSTION, THIS PRODUCT MAY EMIT TOXIC FUMES CONTAINING OXIDES OF NITROGEN.

Physical/Chemical Properties

HCC:

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
212F

Melt/Freeze Pt:

M.P/F.P Text:
32F

Decomp Temp:

Decomp Text:
N/K

Vapor Pres:
20

Vapor Density:
N/R

Volatile Org Content %:

Spec Gravity:
1

VOC Pounds/Gallon:

PH: N/K

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
AS WATER

Solubility in Water:
COMPLETE

Appearance and Odor:
CLEAR, COLORLESS, ODORLESS SOLUTION W/PROPERTIES SIMILAR TO WATER

Percent Volatiles by Volume:
N/K

Corrosion Rate:
N/K

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
HEAT &CONTACT W/INCOMPATIBLE CHEMICALS, TEMP 86F.

Materials To Avoid:
ACIDS, CAUSTICS, OTHER AGENTS

Hazardous Decomposition Products:
N/K

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
N/K

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