

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

ACGIH STEL:

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

LD50/LC50 Mixture:

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 RESPIRATORY TRACT.

Explanation Of Carcinogenicity:

NONE

Signs And Symptoms 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 SUPPORT VITAL FUNCTIONS. 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:

N/R

Autoignition Temp:

N/A

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:

INCIPENT FIRE RESPONDERS SHOULD WEAR EYE PROTECTION. STRUCTURAL FIRE FIGHTERS WEAR SELF CONTAINED BREATHING APPARATUS & FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:

WHEN HEATED TO DECOMPOSITION, THIS PRODUCT MAY EMIT TOXIC FUMES CONTAINING OXIDES OF NITROGEN.

Physical/Chemical Properties

HCC:**NRC/State LC No:**

Net Prop WT For Ammo:

Boiling Point:

212F

B.P. Text:

212F

Melt/Freeze Pt:

32F

Decomp Temp:

N/K

Vapor Pres:

20

Vapor Density:

N/R

Volatile Org Content %:

N/A

Spec Gravity:

1

VOC Pounds/Gallon:

VOC Pounds/Gallon:

PH:

N/K

VOC Grams/Liter:

N/A

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/A

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

N/K

Toxicological Information

Information:

N/P

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:

N/P

Information:

N/P

Information: