

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-302/302-01-2.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

302-01-2

Code:

T

RTECS:

MU7175000

Code:

T

Name:

HYDRAZINE Environmental Wt: Other REC Limits: N

Other REC Limits:

NONE RECOMMENDED

OSHA PEL:

NOT ESTABLISHED

Code:

M

OSHA STEL:**Code:****ACGIH TLV:**

NOT ESTABLISHED

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

AS REQUIRED TO KEEP AIRBORNE CONCENTRATION BELOW TLV OF HYDRAZINE.

Ventilation:

FRESH AIR, AVOID DIRECT FUMES.

Protective Gloves:

PVC OR BUTYL RUBBER GLOVES.

Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS, CHEMICAL WORKERS DUST-PROOF GOGGLES.

Other Protective Equipment:

Equipment PVC OR BUTYL RUBBER APRON.

Work Hygienic Practices:

N/P

Supplemental Safety and Health:

CONTACT LENSES SHOULD NOT BE WORN. NOTE TO PHYSICIAN: HYDRAZINE IS A POISON AND CARCINOGEN AFFECTING THE LUNGS (TUMORIGEN) NERVOUS SYSTEM, LIVER, KIDNEYS AND 3 SUBCUTANEOUS TISSUE.

Health Hazards Data

LD50/LC50 Mixture:

LD50 (ORAL, RAT) : 129 MG/KG

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

YES

IARC:

YES

OSHA:

N/P

Health Hazards Acute And Chronic:

SWALLOWING: POISON BY INGESTION. DAMAGES LIVER & DESTROYS RED BLOOD CELLS. INHALATION: CORROSIVE, CAUSES BURNS TO MUCOUS MEMBRANES. SKIN: CORROSIVE, CAUSES SKIN BURNS, MAY CAUSE SKIN SENSITIZATION & SYSTEMIC POISONING. EYE: CORROSIVE, CAUSES EYE BURNS, MAY CAUSE BLINDNESS.

Explanation Of Carcinogenicity:

HYDRAZINE IS A POISON AND CARCINOGEN AFFECTING THE LUNGS (TUMORIGEN), NERVOUS SYSTEM, LIVER, KIDNEYS AND SUBCUTANEOUS TISSUE. HYDRAZINE IS LISTED BY NTP & IARC AS A POSSIBLE GROUP B HUMAN CARCINOGEN.

Signs And Symptoms Of Overexposure:

SWALLOWING: POISON BY INGESTION. DAMAGES LIVER & DESTROYS RED BLOOD CELLS. CORROSIVE BY INHALATION. CAUSES BURNS TO MUCOUS MEMBRANES IF INHALED. AS WITH ANY ORGANIC COMPOUND THAT IS HEATED TO VAPORIZATION, EXPOSURE MAY AGGRAVE PRE-EXISTING CONDITIONS SUCH AS COLDS, ALLERGIES, ASTHMA, EMPHYSEMA & PSORIASIS. SKIN: CORROSIVE, CAUSES SKIN BURNS, MAY CAUSE SKIN SENSITIZATION & SYSTEMIC POISONING. INHALATION: CAUSES BURNS TO MUCOUS MEMBRANES IF INHALED. SKIN: CORROSIVE, CAUSES SKIN BURNS, M

Medical Cond Aggravated By Exposure:

AS WITH ANY ORGANIC COMPOUND THAT IS HEATED TO VAPORIZATION, EXPOSURE MAY AGGRAVE PRE-EXISTING CONDITIONS SUCH AS COLDS, ALLERGIES, ASTHMA, EMPHYSEMA & PSORIASIS.

First Aid:

EYES: FLUSH WITH PLENTY OF WATER. SEEK MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. REMOVE AND LAUNDRY CONTAMINATED CLOTHING. GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION. INGESTION: INDUCE VOMITING. FOR LARGE AMOUNTS INGESTED INDUCE VOMITING WITH IPECAC. DO NOT INDUCE VOMITING IF THE PERSON IS COMATOSE. GET EMERGENCY MEDICAL ATTENTION.

Spill Release Procedures:

WEAR NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS. FOLLOWING OSHA REGULATIONS FOR RESPIRATOR USE (SEE CFR 1910.134). WEAR GOGGLES, COVERALLS AND PVC OR BUTYL RUBBER GLOVES AND BOOTS. WASH ALL CONTAMINATED CLOTHING BEFORE REUSE. DESTROY ANY CONTAMINATED LEATHER ARTICLES.

Neutralizing Agent:

N/P

Waste Disposal Methods:

FLUSH WITH LARGE AMOUNTS OF WATER AND DRAIN INTO A CATCH BASIN. TRANSFER INTO AN APPROVED DOT CONTAINER AND SEAL. NEUTRALIZE ANY REMAINING MATERIAL WITH DILUTE HYPOCHLORITE SOLUTION AND WASH DOWN WITH WATER.

Handling And Storage Precautions:

2 DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT TAKE INTERNALLY. AVOID BREATHING MIST OR VAPOR. DESTROY ANY CONTAMINATED LEATHER ARTICLES. MAINTAIN ATMOSPHERE OR NITROGEN OVER HYDRAZINE. CONTAINER S MUST BE GROUNDED. ADEQUATE WATER SUPPLY MUST BE AVAILABLE FOR FLUSHING.

Other Precautions:

N/P

Fire and Explosion Hazard Information

Flash Point Method:

N/K

Flash Point:

=89.4C, 193F

Flash Point Text:**Autoignition Temp:**

N/P

Lower Limits:

4.7

Upper Limits:

100

Extinguishing Media:

WATER FOG, DRY CHEMICAL, CO2.

Fire Fighting Procedures:

VAPOR CAN BE IGNITED BY SPARK OR FLAME. USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS. DILUTE UNIGNITED SPILLS WITH LARGE AMOUNTS OF WATER DILUTING CONCENTRATION BELOW 40% BY WT.

Unusual Fire/Explosion Hazard:

COMBUSTIBLE LIQUID.

Physical/Chemical Properties

T4:

T4

NRC/State LIC No:**Net Prop WT For Ammo:****Boiling Point:**

=110C, 230F

B.P. Text:**Melt/Freeze Pt:****N/A/F.P. Text:**

N/A

Decomp Temp:

N/P

Decomp Text:**Vapor Pres:**

SAME AS WATER

Vapor Density:

SAME WATER

Volatile Org Content %:**Spec Gravity:**

1.01

VOC Pounds/Gallon:**PH:**

N/P

Viscosity:

N/P

Evaporation Rate & Reference:

SAME AS WATER

Solubility in Water:

COMPLETE/WATER

Appearance and Odor:

COLORLESS LIQUID, AMMONIA ODOR.

Percent Volatiles by Volume:

N/P

Corrosion Rate:

N/P

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

WILL REACT WITH OXYGEN.

Materials To Avoid:

STRONG ACIDS, STRONG OXIDIZING MATERIALS, STRONG BASES, BARIUM OXIDE, CALCIUM OXIDE, CHROMATE SALTS, ALKALI METALS AND METAL SALTS.

Hazardous Decomposition Products:

AMMONIA.

Hazardous Polymerization Indicator:

N/P

Conditions To Avoid Polymerization:

HEAT, FLAME, PROLONGED STORAGE AT ELEVATED TEMPERATURES.

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

Other