

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-133/1333-74-0.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

1333-74-0

Code:

M

RTECS:

MW8900000

Code:

M

Name:

HYDROGEN GAS

Other REC Limits:

N/R

OSHA PEL:

N/R

Code:

M

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

N/R

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

POSITIVE PRESSURE AIR MASK OR SELF-CONTAINED BREATHING APPARATUS.

Ventilation:

LOCAL EXHAUST. AVOID FLAM OR EXPLOS MIXTES BY ADEQUATE VENTILATION. VENTILATE ROOF AREAS.

Protective Gloves:

COTTON OR LEATHER

Eye Protection:

SAFETY GOGGLES OR GLASSES

Other Protective Equipment:

Equipment SAFETY SHOES;AIR MONITORING FOR 0-4% HYDROGEN DETECTION MAY BE NECESSARY.

Work Hygienic Practices:

N/K

Supplemental Safety and Health:

N/K 4

Health Hazards Data

LD50/LC50 Mixture:

N/P

Route Of Entry Inds - Inhalation:

YES

Skin:

N/P

Ingestion:

N/P

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

N/P

Explanation Of Carcinogenicity:

N/P 2

Signs And Symptoms Of Overexposure:

INHAL-DIZZINESS,UNCONSCIOUSNESS,DEATH

Medical Cond Aggravated By Exposure:

N/K

First Aid:

QUICKLY REMOVE TO FRESH AIR. OBTAIN PROMPT MED ATTN. AVOID IGNITION & BE CONGNIZANT OF EXTREME FIRE/EXPLOSION HAZ. RESCUE PERS SHOULD WEAR SLF-CONTND BREATH APPAR. PROVIDE ARTIFICIAL RESPIR IF REQ'D.

Spill Release Procedures:

EVAC ALL PERS FM AFFECTED AREA;DO NOT ENTER AREAS CONTAINING FLAM MIXTURES OF HYDROGEN & AIR. VENT AREA TO PREVENT FORM OF FLAM OR OXYGEN DEFICIENT ATMOSPHERE. ELIMINATE ALL POTENTIAL SOURCES OF IGNIT ION.

Neutralizing Agent:

N/R

Waste Disposal Methods:

FOLLOW LOCAL,STATE & FED REGS. MAY BE SLOWLY BURNED OFF OR VENTED & DIFFUSED SLOWLY INTO ATMOSPHERE AS LONG AS FLAM MIXTURES,FIRES & EXPLOSIONS ARE SAFELY AVOIDED,IN A REMOTE OUTSIDE AREA.

Handling And Storage Precautions:

PROTECT CYL FM PHYSICAL DAMAGE. STORE IN WELL VENT,COOL,DRY AREA. "NO SMOKING OR OPEN FLAME" SIGNS SHOULD BE POSTED. DO NOT EXPOSE TO TEMPS OVER 130F.

Other Precautions:

ELECTRICALLY GROUND ALL PIPING & EQUIP. ELEC EQUIP MUST BE EXPLO PROOF. SMALL LEAKS MAY BE INVISIBLE.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:**Flash Point Text:**

AUTO IGN-1975F

Autoignition Temp:

1975F 3

Lower Limits:

4

Upper Limits:

74.2

Extinguishing Media:

WATER,CARBON DIOXIDE,DRY CHEMICAL,HALON

Fire Fighting Procedures:

IF POSS,S FLOW OF HYDROGEN;KEEP EQUIP COOL W/WATER SPRAY;BURNS W/ALMOST INVISIBLE FLAME;VENT AREA;IS A VERY LIGHT GAS & RISES RAPIDLY IN AIR.

Unusual Fire/Explosion Hazard:

DANGER OF RE-IGNITION & EXPLOSION.HYDRO FIRE SHOULDN'T BE EXTING UNTIL LEAK IS SPED. GAS LEAK FROM HIGH PRESSURE STORAGE CAN IGNITE SPONTANEOUSLY.

Physical/Chemical Properties

HCC:

G2

NRC/State LIC No:**Net Prop WT For Ammo:****Boiling Point:****B.P. Text:**

-423F

Melt/Freeze Pt:**M.P./F.P. Text:**

N/R

Decomp Temp:**Decomp Text:**

N/R

Vapor Pres:

760/423F

Vapor Density:

0.07

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

N/R

VOC Pounds/Gallon:**VOC Grams/Liter:**

N/P

pH:

N/P

Nicosity:**Nicosity:****Evaporation Rate & Reference:**

N/R

Solubility in Water:

1.82% BY VOLUME

Appearance and Odor:

COLORLESS ODORLESS GAS

Percent Volatiles by Volume:

N/R

Corrosion Rate:

N/P

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

SOURCES OF IGNITION,SPARKS,FLAMES, HOT SURFACES

Materials To Avoid:**OXIDIZERS:****Hazardous Decomposition Products:**

NONE

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

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