

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-138/13813-19-9.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

13813-19-9

Code:

M

RTECS:

Code:

X

Name:

DEUTERATED SULFURIC ACID % low Wt: 90. Code:

Other REC Limits:

N/P

OSHA PEL:

2 MG/M3

Code:

T

OSHA STEL:

N/P

Code:

3

ACGIH TLV:

NOT ESTABLISHED

Code:

T

ACGIH STEL:

C2 MG/M3

Code:

T

Control Measures

Respiratory Protection:

NONE REQUIRED WHERE APPROPRIATE VENTILATION CONDITIONS EXIST. IF TLV IS EXCEEDED, A SELF CONTAINED BREATHING APPARATUS IS ADVISED.

Ventilation:

4 USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET REQUIREMENTS.

Protective Gloves:

RUBBER GLOVES

Eye Protection:

SAFETY GOGGLES AND FACE SHIELD

Other Protective Equipment:

Equipment UNIFORM, PROTECTIVE SUIT

Work Hygienic Practices:

DO NOT GET IN EYES, ON SKIN, ON CLOTHING. DO NOT BREATHE VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. LOOSEN CLOSURE CAUTIOUSLY. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health:

LABORATORY PROTECTIVE EQUIPMENT: GOGGLES & SHIELDS; LAB COAT & APRON; VENT HOOD; PROPER GLOVES. PRECAUTIONARY LABEL STATEMENT: POISON DANGER. CAUSES SEVERE BURNS, MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. REACTS VIOLENTLY WITH WATER.

Health Hazards Data

LD50/LC50 Mixture:

ORAL LD50(RAT):2140 MG/KG

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

ADVERSE EFFECTS OF KIDNEY FUNCTION AND MAY BE FATAL. TARGET ORGANS: RESPIRATORY SYSTEM, EYES, SKIN, TEETH. CHRONIC OVEREXPOSURE MAY RESULT IN LUNG DAMAGE.

Explanation Of Carcinogenicity:

N/P

Signs And Symptoms Of Overexposure:

INHALATION OF VAPORS MAY CAUSE SEVERE IRRITATION OF THE RESPIRATORY SYSTEM. LIQUID MAY CAUSE SEVERE BURNS TO SKIN AND EYES. INGESTION IS HARMFUL AND MAY BE FATAL. INGESTION MAY CAUSE NAUSEA AND VOMITING. INGESTION MAY CAUSE SEVERE BURNS TO MOUTH, THROAT, AND STOMACH. MAY HAVE ADVERSE EFFECTS OF KIDNEY FUNCTION AND MAY BE FATAL.

Medical Cond Aggravated By Exposure:

NONE IDENTIFIED.

First Aid:

CALL APHYSICIAN. IF SWALLOWED, DO NOT INDUCE VOMITING; IF CONSCIOUS, GIVE WATER, MILK OR MILK OF MAGNESIA. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE.

Spill Release Procedures:

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. S LEAK IF YOU CAN DO SO WITHOUT RISK. DO NOT USE WATER. NEUTRALIZE SPILLS AND/OR WASHING WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER. MOVE CONTAINERS FROM SPILL AREA.

Neutralizing Agent:

SODA ASH OR LIME. 3

Waste Disposal Methods:

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. EPA HAZARDOUS WASTE NUMBER: D002, D003 (CORROSIVE, REACTIVE WASTE).

Handling And Storage Precautions:

KEEP CONTAINER TIGHTLY CLOSED. STORE IN CORROSION-PROOF AREA. KEEP CONTAINERS OUT OF SUN AND AWAY FROM HEAT.

Other Precautions:

N/P

Fire and Explosion Hazard Information

Flash Point Method:

CC

Flash Point:

Flash Point Text:

N/A

Autoignition Temp:

N/A

Autoignition Temp Text:

N/A

Lower Limits:

N/A

Upper Limits:

N/A

Extinguishing Media:

USE DRY CHEMICAL OR CARBON DIOXIDE. DO NOT USE WATER.

Fire Fighting Procedures:

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. DO NOT GET WATER INSIDE CONTAINERS

Unusual Fire/Explosion Hazard:

A VIOLENT EXOTHERMIC REACTION OCCURS WITH WATER. SUFFICIENT HEAT MAY BE PRODUCED TO IGNITE COMBUSTIBLE MATERIALS.

Physical/Chemical Properties

HCC:

C1

NRC/State LIC No:

N/P

Net Prop WT For Ammo:

N/A

Boiling Point:

N/A

Melt/Freeze Pt:

N/A

M.P/F.P Text:

N/A

Decomp Temp:

N/P

Decomp Text:

N/P

0

Vapor Density:

N/A

Volatile Org Content %:

N/A

Spec Gravity:

1.86

VOC Pounds/Gallon:

N/A

PH:

N/P

VOC Grams/Liter:

N/A

Viscosity:

N/P 5

Evaporation Rate & Reference:

N/A

Solubility in Water:

APPRECIABLE

Appearance and Odor:

CLEAR, COLORLESS TO LIGHT YELLOW, OILY ODORLESS LIQUID

Percent Volatiles by Volume:

N/A

Corrosion Rate:

N/P

OSHA:

NO

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N/P

Toxicological Information

Information:

N/P

MSDS Transport Information

Information: