## MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses.

Composition/Information on Ingredient

Cas:

Code: Т

RTECS:

Code: Τ

Name:

MX1225000

**Other REC Limits:** 

**OSHA PEL:** 

**OSHA STEL:** 

**ACGIH TLV:** 

**ACGIHSTEL:** 

Ventilation:

**Protective Gloves:** 

**Eye Protection:** 

4.0%

44.0%

**Upper Limits:** 

248.9 PSIG

1.17

**Vapor Density:** 

**Volatile Org Content %:** 

**Hazardous Polymerization Indicator:** 

**Conditions To Avoid Polymerization:** 

**Toxicological Information** 

**Regulatory Information** 

Sara Title III Information: N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

Other Information

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Other Information:N/P

**MSDS Transport Information** 

WILL NOT OCCUR.

Information:N/P

Information:N/P

Other Protective Equipment:

**Work Hygienic Practices:** 

5 MG/M3 (OIL MIST)

**Control Measures** 

WITHIN THE FLAMMABLE RANGE & MUST NOT BE ENTERED.

LIMITS. LOCAL EXHAUST VENTILATION IS PREFERRED.

**Respiratory Protection:** 

Code:

Code:

Code: М

Code:

Μ

NONE RECOMMENDED

5 MG/M3 (OIL MIST)

HYDROGEN SULFIDE Environmental Wt: Other REC Li

Click <a href="http://www.lookchem.com/cas-778/7783-06-4.html">http://www.lookchem.com/cas-778/7783-06-4.html</a> for suppliers of this product.

7783-06-4

**Route Of Entry Inds - Inhalation:** YES Skin: YES Ingestion: NO **Carcinogenicity Inds - NTP:** IARC: NO

**Supplemental Safety and Health:** NOTE TO PHYSICIAN: ADMINISTER OXYGEN, IF NECESSARY AND TREAT SYMPTOMS. BE OBSERVANT FOR INITIAL SIGNS OF PULMONARY EDEMA. OTHER: FIRE RESISTANT GLOVES & CLOTHING IN EMERGENCY SITUATIONS. LEATHER GLOV ES FOR HANDLING CYLINDERS. **Health Hazards Data** LD50LC50Mixture: N/P

SELF-CONTAINED BREATHING APPARATUS (SCBA) OR POSITIVE PRESSURE AIR LINE WITH FULL-FACE MASK & ESCAPE PACK SHOULD BE USED IN AREAS WHERE THE HYDROGEN SULFIDE CONCENTRATION IS BELOW 0.40%, WHICH IS 10%

PROVIDE EXPLOSION-PROOF VENTILATION SUFFICIENT TO ENSURE HYDRGEN SULFIDE DOES NOT REACH EXPOSURE

Equipment SAFETY SHOES ARE RECOMMENDED WHEN HANDLING CYLINDERS. STATIC-RESISTANT CLOTHING IS

BUTYL RUBBER, CHLORINATED POLYETHYLENE, NEOPRENE, NITRILE, OR POLYVINYL RUBBER.

SAFETY GLASSES FOR HANDLING CYLINDERS. CHEMICAL GOGGLES WITH FULL FACESHIELD. 3

RECOMMENDED. SAFETY SHOWER & EYE WASH STATION SHOULD BE READILY AVAILABLE.

OF THE LEL OF HYDROGEN SULFIDE & EXCEEDS PERMISSIBLE EXPOSURE LIMITS. HIGH CONCENTRATION MAY BE

OSHA: NO **Health Hazards Acute And Chronic:** TARGET ORGANS-EYES, SKIN, RESPIRATORY & CENTRAL NERVOUS SYSTEMS. EYE-INFLAMMATION & IRRITATION OF THE EYES CAN OCCUR AT VERY LOW CONCENTRATIONS (<10 PPM). EXPOSED INDIVIDUALS MAY SEE RINGS AROUND BRIG HT LIGHTS. MOST SYMPTOMS DISAPPEAR WHENEXPOSURE CEASES. ALSO, CONTACT WITH LIQUID (OR RAPIDLY EXPANDING GAS) MAY CAUSE IRRITATION & FROSTBITE. INGESTION-NOT A LIKELY ROUTE OF INDUSTRIAL EXPOSURE. INHA LATION-EXPOSURE TO HYDROGEN SULFIDE >500PPM CAN RESULT IN RESPIRATORY ARREST, COMA, UNCONSC **Explanation Of Carcinogenicity:** 

THIS PRODICT IS NOT LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY NTP, IARC, OR OSHA. **Signs And Symptions Of Overexposure:** EYE:SYMPTOMS MAY INCLUDE TEARING, BURNING, PAIN WHEN LOOKING AT LIGHT (PHOHOBIA) & BLURRED VISION. INGESTION: NOT A LIKELY ROUTE OF INDUSTRIAL EXPOSURE. INHALATION: CAN CAUSE DEADENING OF SENSE OF SMELL, DIZZINESS, HEADACHE, NAUSEA & RESPIRATORY TRACT IRRITATION. SEVERE EXPOSURE MAY CAUSE LONG-TERM SYMPTOMS SUCH AS MEMORY LOSS, PARALYSIS OF FACIAL MUSCLES, OR NERVE TISSUE DAMAGE. SKIN: CONTACT WITH LIQUID (OR RAPIDLY EXPANDING GAS) MAY CAUSE IRRITATION & FROSTBITE.

Medical Cond Aggravated By Exposure: ACUTE OR CHRONIC RESPIRATORY CONDITIONS, NEUROLOGICAL OR EYE DISORDERS MAY BE AGGRAVATED BY OVER-EXPOSURE TO HYDROGEN SULFIDE. First Aid: EYE: FLUSH EYES WITH PLENTY OF LUKEWARM WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IMMEDIATELY. INGESTION: INGESTION IS AN UNLIKELY ROUTE OF EXPOSURE FOR HYDROGEN SULFIDE. INHALATION: RMOVE PER SON TO FRESH AIR. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. OBTAIN PROMPT MEDICAL ATTENTION. SKIN: IF LIQUID HYDROGEN SULFIDE COMES IN CONTACT WITH SKIN, OR IF IRRITATION OF THE SKIN DEVELOPS AFTER EXPOSURE TO GAS, IMMEDIATELY BEGIN DE

**Spill Release Procedures:** \*\*\*SEE OTHER\*\*\* **Neutralizing Agent: Waste Disposal Methods:** 

SHALL BE DONE I/A/W FEDERAL, STATE & LOCAL REGULATIONS. WASTES CONTAINING THIS MATERIAL MAY BE CLASSIFIED BY EPA AS A HAZARDOUS WASTE BY CHARACTERISTIC (SUCH AS IGNITABILITY, CORROSIVITY, TOXICITY, RE ACTIVITY). WASTE STREAMS MUST BE CHARACTERIZED BY THE USER TO 2 MEET FEDERAL, STATE & LOCAL REQUIREMEN TS. RETURN CONTAINER & UNUSED PRODUCT TO SUPPLIER. **Handling And Storage Precautions:** STORE CYLINDERS IN A WELL-VENTILATED, SECURE AREA, PROTECTED FROM THE WEATHER. SECURED CYLINDERS SHOULD BE STORED UP-RIGHT WITH VALVE OUTLET SEALS & VALVE PROTECTION CAPS IN PLACE. THERE SHOULD BE NO SOURCES OF IGNITION. ALL

ELECTRICAL EQUIPMENT SHOULD BE EXPLOSION-PROOF IN THE STORAGE AREAS. **Other Precautions:** BE AWARE OF ANY SIGNS OF DIZZINESS OR FATIGUE; EXPOSURES TO FATAL CONCENTRATIONS OF HYDROGEN SULFIDE COULD OCCUR WITHOUT ANY SIGNIFICANT WARNING SYMPTOMS. ALL WORK OPERATIONS SHOULD BE MONITORED IN SU CH A WAY THAT EMERGENCY PERSONNEL CAN BE IMMEDIATELY CONTACTED IN THE EVENT OF A RELEASE. Fire and Explosion Hazard Information

**Flash Point Method:** N/A Flash Point:

Flash Point Text: N/P **Autoignition Temp:** =260.C, 500.F **Autoignition Temp Text: Lower Limits:** 

**Extinguishing Media:** CARBON DIOXIDE, DRY CHEMICAL, WATER. KEEP ADJACENT CYLINDERS COOL BY SPRAYING WITH LARGE AMOUNTS OF WATER UNTIL THE FIRE BURN ITSELF OUT. Fire Fighting Procedures: EVACUATE ALL PERSONNEL FROM AREA. IF POSSIBLE, WITHOUT RISK, SHUT OFF SOURCE OF GAS, THEN FIGHT FIRE ACCORDING TO TYPES OF MATERIALS BURNING. EXTINGUISH FIRE ONLY IF GAS FLOW CAN BE SPED. THIS WILL AVOID POSSIBLE ACCUMULATION & REIGNITION OF A FLAMMABLE GAS MIXTURE. SCBA REQUIRED. **Unusual Fire/Explosion Hazard:** MOST CYLINDERS ARE DESIGNED TO VENT CONTENTS WHEN EXPOSED TO ELEVATED TEMPERATURES. PRESSURE IN A CYLINDER CAN

BUILD-UP DUE TO HEAT & IT MAY RUPTURE IF PRESSURE RELIEF DEVICES SHOULD FAIL TO FUNCTION. AN EXTREME EXPLOSION HAZARD

EXISTS IN AREA IN WHICH THE GAS HAS BEEN RELEASED BUT THE MATERIAL HAS NOT YET IGNITED.

Physical/Chemical Properties HCC: G8 NRC/State LIC No:

**Net Prop WT For Ammo: Boiling Point:** =-60.2C, -76.4F **B.P. Text:** 

Melt/Freeze Pt: =-85.4C, -122.F M.P/F.P Text: **Decomp Temp: Decomp Text:** N/P **Vapor Pres:** 

Spec Gravity: 0.79 **VOC Pounds/Gallon:** PH: N/P **VOC Grams/Liter:** 

Viscosity: N/P **Evaporation Rate & Reference:** N/P Solubility in Water: 0.0317 LB/GAL @68F(20C)

**Appearance and Odor:** COLORLESS GAS WITH ODOR OF "ROTTEN EGGS" **Percent Volatiles by Volume:** 

**Corrosion Rate:** N/P Reactivity Data **Stability Indicator:** 

YES **Stability Condition To Avoid:** 

CYLINDERS SHOULD NOT BE EXPOSED TO TEMPERATURES IN EXCESS OF 125F (52C). **Materials To Avoid:** OZIDIZING AGENTS, ORGANIC PEROXIDES, ALKALINE MATERIALS, METALS (I.E. COPPER, LEAD), AND METAL OXIDES. HYDROGEN SULFIDE REACTS WITH MOST METALS TO FORM METAL SULFIDES. **Hazardous Decomposition Products:** HYDROGEN AND SULFUR.

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

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WARRANTY

terms and conditions of sale.