

MATHESON GAS PRODUCTS INC -- HYDROGEN SULFIDE (H2S) -- 6830-00-209-8029

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Product Identification
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Product ID:HYDROGEN SULFIDE (H2S)
MSDS Date:03/29/1990
FSC:6830
NIIN:00-209-8029
MSDS Number: BVFKM
=== Responsible Party ===
Company Name:MATHESON GAS PRODUCTS INC
Address:30 SEAVIEW DR
City:SECACUS
State:NJ
ZIP:07096
Country:US
Info Phone Num:201-867-4100
Emergency Phone Num:201-867-4100/800-424-9300 (CHEMTREC)
CAGE:0NPS5
=== Contractor Identification ===
Company Name:MATHESON CO DIV OF G D SEARLE MEDICAL PRODUCTS
Address:30 SEAVIEW DRIVE
Box:City:SCAUCUS
State:NJ
ZIP:07096
Country:US
Phone:201-867-4100
CAGE:96355
Company Name:MATHESON GAS PRODUCTS INC
Address:30 SEAVIEW DR
Box:1587
City:SECACUS
State:NJ
ZIP:07094-1882
Country:US
Phone:800-424-9300 (CHEMTREC)
CAGE:0NPS5

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Composition/Information on Ingredients
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Ingred Name:HYDROGEN SULFIDE (SARA III)
CAS:7783-06-4
RTECS #:MX1225000
Fraction by Wt: 100.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C, 20 PPM
ACGIH TLV:10 PPM/15 STEL; 9394
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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Hazards Identification
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LD50 LC50 Mixture:LC50 (INHALATION, RAT) IS 444 PPM.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS,
RESPIRATORY TRACT. ACUTE- INHALATION:IRRITANT, ASPHYXIANT, TOXIC.
MAY CAUSE COUGH, PARALYSIS, SLEEPINESS, HEADACHE, BLURRED VISION,
HEMORRHAGE & DEATH. EYES/SKIN:IRRITANT . MAY CAUSE FROSTBITE.
ORAL:UNLIKELY. LIQUID CAN CAUSE FROSTBITE. CHRONIC- BLURRED VISION,
PARALYSIS, INSOMNIA, ANOREXIA
Explanation of Carcinogenicity:NONE
Effects of Overexposure:EYES, SKIN & RESPIRATORY TRACT IRRITATION;
PULMONARY EDEMA, COUGH, SALIVATION, MUCOUS DISCHARGE, BLURRED
VISION, HEMORRHAGE, HEADACHE, DIZZINESS, WEAKNESS, NAUSEA,
VOMITING, COMA, CARDIOPULMONARY ARRE ST, DEATH, BRAIN DAMAGE,
HYPOTENSION, PAIN IN LEGS, SKIN REDNESS AND BLISTERS, EYE PAIN
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING
DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, CNS MAY HAVE
INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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First Aid Measures
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First Aid:GET MEDICAL ATTENTION IMMEDIATELY. EYE/SKIN:IMMEDIATELY FLUSH
WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN IF

WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. IF FROSTBITE, WARM WATER (107F) IS PREFERRED. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:UNLIKELY. IF ADVERSE EFFECTS OCCUR, TREAT SYMPTOMATICALLY & SUPPORTIVELY.

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Fire Fighting Measures
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Flash Point:NOT RELEVANT
Autoignition Temp:Autoignition Temp Text:500F
Lower Limits:4.0
Upper Limits:44
Extinguishing Media:LET BURN UNLESS LEAK CAN BE STOPPED IMMEDIATELY.
FOR LARGER FIRES USE WATER SPRAY, FOG OR STANDARD FOAM.
Fire Fighting Procedures:MOVE CONTAINER FROM FIRE AREA IF POSSIBLE.
STAY AWAY FROM STORAGE TANK ENDS. COOL CYLINDERS WITH WATER USING UNMANNED DEVICE UNTIL WELL AFTER FIRE IS OUT.
Unusual Fire/Explosion Hazard:GAS IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK.
CYLINDER MAY EXPLODE IN HEAT OF FIRE.

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Accidental Release Measures
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Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA.
SHUT OFF IGNITION SOURCES. STOP LEAK IF YOU CAN DO IT WITHOUT RISK.
USE WATER SPRAY TO REDUCE VAPORS. ISOLATE AREA UNTIL GAS HAS DISPERSED. NO SMOKING, FLAM ES OR FLARES IN HAZARD AREA.
Neutralizing Agent:NOT RELEVANT

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Handling and Storage
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Handling and Storage Precautions:STORE CYLINDERS UPRIGHT IN COOL, WELL-VENTILATED, NON-COMBUSTIBLE PLACE, AWAY FROM SOURCES OF IGNITIONS, LIGHTNING, STATIC ELECTRICITY, INCOMPATIBLES.
Other Precautions:EXTREMELY POISONOUS. AVOID INHALATION OF VAPORS OR CONTACT WITH SKIN. DO NOT ALLOW MATERIAL TO CONTAMINATE WATER SOURCES. AVOID CONTACT WITH HEAT. VAPORS MAY BE EXPLOSIVE. FLOW OR AGITATION MAY GENERATE ELECTROSTATIC CHARGES CAUSING FIRE.

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Exposure Controls/Personal Protection
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Respiratory Protection:IF WORKING IN A CONFINED AREA OR FIGHTING FIRE, USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED AIR RESPIRATOR WITH FULL FACEPIECE, OPERATED IN POSITIVE PRESSURE MODE.
Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW PLV.
Protective Gloves:COLD INSULATING GLOVES
Eye Protection:SPLASH-PROOF SAFETY GOGGLES
Other Protective Equipment:EYE WASH FOUNTAIN AND QUICK DRENCH SHOWER WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.
Supplemental Safety and Health
NOTE TO PHYSICIAN:IN SEVERE POISONING, TREAT WITH AMYL NITRATE BY INHALING 15-30 SECONDS OF EVERY MINUTE WHILE SODIUM NITRITE SOLUTION IS BEING PREPARED. IMMEDIATELY INJECT 10 ML OF A 3% SOLUTION SO DIUM NITRITE IV OVER A PERIOD OF 2-4 MINUTES. IF NECESSARY, INJECT A NON-STERILE SOLUTION. OXYGEN THERAPY MAY BE HELPFUL

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Physical/Chemical Properties
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HCC:G2
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:B.P. Text:-78F,-61C
Melt/Freeze Pt:M.P/F.P Text:-123F,-86C
Vapor Pres:15200 @77F
Vapor Density:1.2
Spec Gravity:1.539 G/L @ 32F
pH:4.5SAT
Evaporation Rate & Reference:NOT RELEVANT
Solubility in Water:2.9% @ 20C (68F)
Appearance and Odor:COLORLESS, GAS OR LIQUID - WITH AN ODOR OF ROTTEN EGGS

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Stability and Reactivity Data
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Stability Indicator/Materials to Avoid:NO
ACETALDEHYDE, COPPER, FLUORINE, METALS, METAL OXIDES, STRONG OXIDIZERS,
POTASSIUM HYDROXIDE, SODA LIME, SODIUM HYDROXIDE
Stability Condition to Avoid:HEAT, SPARKS, OTHER SOURCES OF IGNITION
Hazardous Decomposition Products:TOXIC OXIDES OF SULFUR

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE
AND LOCAL REGULATIONS. REPORTABLE QUANTITY (RQ) IS 100 POUNDS. IF
THE RELEASE OF THIS SUBSTANCE IS REPORTABLE UNDER CERCLA SECTION
103, THE NATIONAL RESPONSE CENTER MUST BE NOTIFIED AT
800-424-8802.

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