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AGA GAS INC SPECIALTY GAS DIV -- HYDROGEN SULFIDE IN NITROGEN 0.1 PPM TO 5% -- 6830-01-331-9024

Product ID: HYDROGEN SULFIDE IN NITROGEN 0.1 PPM TO 5% MSDS Date:09/28/1998 FSC:6830 NIIN:01-331-9024 MSDS Number: CKWTF === Responsible Party === Company Name: AGA GAS INC SPECIALTY GAS DIV Address:6421 MONCLOVA RD City:MAUMEE State:OH ZIP:43537 Country:US Info Phone Nu m:419-893-7226 Emergency Phone Num:419-893-7226 Resp. Party Other MSDS Num.:2100 CAGE:0FUP3 === Contractor Identification === **Company Name: AGA GAS INC** Address:6055 ROCKSIDE WOODS BLVD Box:94737 City:CLEVELAND State:OH ZIP:44131-2329 Country:US Phone:216-642-6652 Contract Num:SP0450-01-M-D432 CAGE:1E6A1 Company Name: AGA GAS INC Address:6055 ROCKSIDE WOODS BLVD Box:94737 City:CLEVELAND State:OH ZIP:44131-2329 Country:US Phone:216-642-6652 Contract Num:SP0450-01-M-ZA10 CAGE:1E6A1 Company Name: AGA G

AS INC Address:6055 ROCKSIDE WOODS BLVD Box:94737 City:CLEVELAND State:OH ZIP:44131-2329 Country:US Phone:216-642-6652 Contract Num:SP0450-99-M-JN77 CAGE:1E6A1 Company Name: AGA GAS INC SPECIALTY GAS DIV Address:6421 MONCLOVA RD Box:City:MAUMEE State:OH ZIP:43537 Country:US Phone:419-893-7226 Contract Num:SPO450-01-M-D449 CAGE:0FUP3 Ingred Name: HYDROGEN SULFIDE (SARA 302/313) (CERCLA) CAS:7783-06-4 RTECS #:MX1225000 Fraction b y Wt: 700 PPM HAVE BEEN FATAL. NITROGEN IS A SIMPLE ASPHYXIANT. Explanation of Carcinogenicity:NO DATA PROVIDED BY MANUFACTURER. Effects of Overexposure: EYES: IRRITATION, CONJUNCTIVITIS, PHOTO PHOBIA, CORNEAL BULLAC, TEARING, PAIN, BLURRED VISION. SKIN: IRRITATION. INHALATION: IRRITATION OF MUCOUS MEMBRANES, HEADACHE, DIZZINESS, NAUSEA, OLFACTORY FATI GUE, PARALYSIS OF SMELL, RESPIRATORY ARREST, COMA, TRACT IRRITATION, DIZZINESS, HEADACHE, NAUSEA, ASPHYXIATION. HIGHER CONCENTRATIONS OF HYDROGEN SULFIDE GAS (200-300 PPM) MAY RESULT IN RESPIRATORY A RREST LEADING TO COMA OR UNCONSCIOUSNESS. EXPOSURE TO MORE THAN 30 MINUTES AT CONCENTRATIOINS GREATER THAN 700 PPM HAVE BEEN FATAL. Medical Cond Aggravated by Exposure: BLOOD DISORDERS.

First Aid:EYES: IMMEDIATELY FLUSH WITH LOW PRESSURE, COOL WATER FOR AT LEAST 15 MINUTES, OPENING EYELIDS. GET IMMEDIATE MEDICAL ATTENTION. SKIN : FLUSH AFFECTED AREA WITH COPIOUS QUANTITIES OF WATER. REMOVE CONT AMINATED CLOTHING AS RAPIDLY AS POSSIBLE. SEEK IMMEDIATE MEDICAL ATTENTION. INGESTION: TREAT IN A MANNER SIMILAR TO INHALATION EXPOSURE. SEEK MEDICAL ATTENTION AS SOON AS POSSIBLE.INHALATION: RESCUE P ERSONNEL SHOULD BE EQUIPPED WITH SCBA. QUCICKLY REMOVE PERSON FROM EXPSOURE. IF UNCONSCIOUS, GIVE ARTIFICIAL PRESPIRATION & SUPPLEMENTAL OXYGEN. GET IMMEDIATE MEDICAL CARE.

Flash Point:N/A-GAS
Lower Limits:4.0% H2S
Upper Limits:44.0% H2S
Extinguishing Media:USE WATER, CARBON DIOXIDE, DRY CHEMICALS.
Fire Fighting Procedures:IF POSSIBLE, STOP FLOW OF GAS. USE WATER SPRAY TO COOL SURROUNDING CONTAINERS.
Unusual Fire/Explosion Hazard:HYDROGEN SULFIDE IS FLAMMABLE IN AIR OVER A WIDE RANGE. ELIMINATE ALL SOURCES OF IGNITION. INCREASE
VENTILATION TO PREVENT AN EXPLOSION HAZARD. KEEP APPARATUS AWAY FROM AREAS WHERE F
LAMMABLE GAS MAY A CCUMULATE.

Spill Release Procedures: EVACUATE PERSONNEL FROM AREA. USE APPROPRIATE EQUIPMENT. STOP FLOW OF GAS USING A VALVE FROM REMOTE LOCATION IF POSSIBLE. EXTINGUISH ALL IGNITION SOURCES. VENTILATE AREA TO PREVENT BUILD-UP OF TOXIC O R FLAMMABLE/EXPLOSIVE ATMOSPHERES. ALL ELECTRICAL EQUIPMENT MUST BE EXPLOSION-PROOF IF USED TO VENTILATE SPILL AREA. KEEP NON-ESSENTIAL PERSONNEL AWAY AT ALL TIMES.

Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER.

Handling and Storage Precautions:PROTECT CYLINDERS FROM DAMAGE. STORE IN COOL (NOT TO EXCEED 125F TEMPERATURE), DRY, WELL VENTILATED AREA AWAY FROM HEAVILY TRAFFICKED AREAS AND EMERGENCY EXITS. STORE CYLINDERS UPRIGHT, FIRMLY SECURE D. USE "FIRST IN. FIRST OUT" INVENTORY TO PREVENT FULL CYLINDERS BEING STORED FOR EXCESSIVE TIME. Other Precauti ons:KEEP VALVE CAPS IN PLACE UNLESS CONTAINER IS SECURED AND VALVE CONNECTED TO USE POINT. CLOSE VALVE AFTER EACH USE AND WHEN EMPTY. DO NOT DRAG, SLIDE, ROLL CYLINDERS. USE HAND TRUCK. USE REDUCING REGU LATOR WHEN CONNECTING TO SYSTEMS. DO NOT USE GAS DIRECTLY FROM CYLINDER OR HEAT CONTAINER TO INCREAS E DISCHARGE RATE.

Respiratory Protection: A TYPE C RESPIRATOR WITH FULL FACE PIECE EQUIPPED WTH AN ES CAPE BOTTLE OR A SELF- CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE OR WHEN

CONCENTRATIONS EXCEED EXPOSURE LIMITS. Ventilation: USE LOCAL EXAUST TO REDUCE CONCENTRATIONS TO WITHIN

EXPOSURE LEVELS. A LABORATORY TYPE HOOD IS SUITABLE FOR HANDLING SMALL OR LIMITED QUANTITIES.

Protective Gloves: PROTECTIVE GLOVES: NEOPRENE, BUTYL RUBBER, PVC, POLYEHTYLENE.

Eye Protection: SAFETY GLASSES OR GOGGLES.

Other Protective Equipment:SAFETY SHOES, SAFETY SHOWER, EYEWAS H

FOUNTAIN.

Work Hygienic Practices: NO DATA PROVIDED BY MANUFACTURER.

Supplemental Safety and Health

THIS PRODUCT FOR NSN 6830-01-331=9024 CONTAINS BETWEEN 9.0 PPM AND 11.0 PPM OF HYDROGEN SULFIDE IN NITROGEN AND IS THEREFORE A NONFLAMMABLE MIXTURE (LESS THAN 4.0% HYDROGEN SULFIDE).

HCC:G3

Solubility in Water:SLIGHT

Appearance and Odor: A COLORLESS GAS OR LIQUID. ROTTEN EGG ODOR.

======== Stability and R

Stability Indicator/Materials to Avoid:YES

MANY METALS CORRODE RAPIDLY IF EXPOSED TO HYDROGEN SULFIDE IN A WET ATMOSPHERE. AVOID USING HARD OR HIGHLY STRESSED STEELS WHICH MAY BE SUSCEPTIBLE TO HYDROGEN EMBRITTLEMENT FROM H2S.. AVOID COPPER AND COPPER BASED MATERIAL

Stability Condition to Avoid:HEAT, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES.

Hazardous Decomposition Products:OXIDES OF SULFUR.

Conditions to Avoid Polymerization:WILL NOT OCCU

Toxicological Information: HYDROGEN SULFIDE SHOULD BE REGARDED AS HIGHLY TOXIC. TOXICOLOGICALLY, IT REACTS WITH ENZYMES IN THE BLOODSTREAM AND INHIBITS CELLULAR RESPIRATION RESULTING IN PULMONARY PARALYSIS, SUDDEN COLLAPSE AND DEATH. THIS EFFECTS OVERSHADOWS THE IRRITANT PROPERTIES. OLFACTORY FATIGUE OR PARALYSIS OF SMELL IS ALSO POSSIBLE THUS DETECTION OF HYDROGEN SULFIDE BY ITS ODOR IS NOT POSSIBLE.

NITROGEN IS CONSIDERED A SIMPLE ASPHYXIANT. THE MAJOR HAZARD FROM EXPOSURE IS THE EXCLUSION OF AN ADEQUATE SUPPLY OF OXYGEN TO THE LUNGS.

Ecological:THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENTS WHICH ARE REGULATED ON THE US EPA LIST OF TOXIC CHEMICALS (40 CFR 372) AND IS THEREFORE NOT SUBJECT TO RELEASE REPORTING UNDER SECTION 313 OF EPCRA/SARA T ITLE III.

====== Disposal Considerations

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO MANUFACTURER FO R PROPER DISPOSAL. DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Transport Information:H2S < 4%: PROPER SHIPPING NAME: COMPRESSED GAS.

N.O.S.. (HYDROGEN SULFIDE, NITROGEN); HAZARD CLASS: 2.2; UN 1958; DOT SHIPPING LABEL: NONFLAMMABLE GAS. H2S > 4%: PROPER SHIPPING NAME: COMPRESSED GAS ,FLAMMABLE, N.O.S.. (HYDROGEN SULFIDE, NITROGEN); HAZARDOUS CLASS: 2.1; UN 1954; DOT SHIPPING LABEL: FLAMMABLE GAS. DLA-HMIS NOTE: THIS NSN 6830-01-331-9024 IS FOR PRODUCT CONTAINING BETWEEN 9 PPM AND 11 PPM OF HYDROGEN SULFIDE IN NITROGEN AND THEREFORE IS NONFLAMMABLE GAS.

====== Regulatory Informa

SARA Title III Information:SARA TITLE 111 - HAZARD CLASSES: ACUTE HEALTH HAZARD; CHRONIC HEALTH HAZARD; FIRE HAZARD; SUDDEN RELEASE OF PRESSURE HAZARD. THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENTS WHICH ARE REGULATED ON THE U.S. EPA LIST OF TOXIC CHEMICALS (40 CFR 372). AND IS THEREFORE NOT SUBJECT TO RELEASE REPORTING UNDER SECTION 313 OF EPCRA/SARA TITLE 111.

Federal Regulatory Information:NO DATA PROVIDED BY MANUFACTURER State Regulatory

Information:NO DATA PROVIDED BY MANUFACTURER.

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