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SCOTT SPECIALTY GASES -- CALIBRATING GASES, MIXTURE VARIOUS COMPONEN 6830-00-498-4241

Product ID:CALIBRATING GASES, MIXTURE VARIOUS COMPONEN MSDS Date:01/01/1987 FSC:6830 NIIN:00-498-4241 MSDS Number: BGTGV === Responsible Party === Company Name: SCOTT SPECIALTY GASES Address: ROUTE 611 NORTH Box:D-11 City:PLUMSTEADVILLE State:PA ZIP:18949 Country:US Info Phone Num:215-766-8861;313-589-2950 (MI) Emergency Phone Num:215-766-8861 Preparer's Name: RECORD DEVELOPED FROM 4 CAGE:51847 === Contractor Identification === Company Name: SCOTT SPECIALTY GASES Address:6141 EASTON RD (6141 ROUTE 611) Box:310 City:PLUMSTEADVILLE State:PA ZIP:18934 Country:US Phone:215-766-8861/ FAX: 215-766-0416 CAGE:51847

Ingred Name:CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Fraction by Wt: 1.3% OSHA PEL:5000 PPM ACGIH TLV:5000PPM/30000STEL;93

Ingred Name:HYDROGEN CAS:1333-74-0 RTECS #:MW8900000 Fraction by Wt: 1.1% OSHA PEL:ASPHYXIANT ACGIH TLV:ASPHYXIANT

Ingred Name:OXYGEN CAS:7782-44-7 RTECS #:RS2060000 Fraction by Wt: 21%

Ingred Name:NITROGEN CAS:7727-37-9 RTECS #:QW9700000 Fraction by Wt: 76% ACGIH TLV:ASPHYXIANT; 9192

Ingred Name:TRACE AMTS OF: CARBON MONOXIDE 45 PPM; DICHLORODIFLUOROMETHANE 65 PPM; DICHLOROTETRAFLOROETHANE 65 PPM!

Ingred Name:DICHLOROTETRAFLUOROETHANE (SARA III) CAS: 76-14-2 RTECS #:KI1101000 Fraction by Wt: 60-70%* Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9192 Ozone Depleting Chemical:1

Ingred Name:NITROGEN CAS:7727-37-9 RTECS #:QW9700000 Fraction by Wt: BALANCE Other REC Limits:NONE SPECIFIED ACGIH TLV:ASPHYXIANT; 9192

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO

IARC:NO OSHA:NO Health Hazards Acute and Chronic: MIXTURE ACTS AS SIMPLE ASPHYXIANT, CONTACT WITH LIQUID CAN CAUSE FROSTBITE. BREATHING HIGH PRESSURE OXYGEN MAY CAUSE CENTRAL NERVOUS SYSSTEM DISTURBANCES. Explanation of Carcinogenicity:NONE OF THE GASES IN THIS MIXTURE ARE CURRENTLY LISTED AS CARCINOGENIC BY OSHA, NTP OR IARC. Effects of Overexposure: RAPID RESPIRATION, MUSCULAR INCOORDINATION, FATIGUE, NAUSEA AND VOMITING, UNCONSCIOUSNESS, LIGHTHEADEDNESS, GIDDINESS. CARDIA C ARRHYTHMIAS, DISORIENTATION, SKIN CONTACT MAY CAUSE FROSTBITE, HEADACHE, VISUAL/HEARING DISTURBANCES, SEIZURES. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER. First Aid:REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. IN CASE OF CONTACT WITH LIQUID, REMOVE VICTIM FROM SOURCE OF CONTACT. FLUSH AFFEC TED AREA WITH LOTSOF TEPID WATER. DO NOT APPLY DIRECT HEAT. DO NOT RUB FROZEN AREA. Flash Point:NONE Lower Limits:4% (H2) Upper Limits:75% (H2) Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, HALOGENATED GAS Fire Fighting Procedures: DO NOT EXTINGUISH UNLESS FLOW OF GAS CAN BE STOPPED AT SOURCE. KEEP FIRE-EXPOSED CYLINDERS COOL WITH WATER SPRAY. WEAR SELF-CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Haza rd:HIGH OXIDIZING ATMOSPHERE INCREASES CHANCE OF FIRES. FLASH DANGER IS PRESENT. CYLINDERS MAY RUPTURE. TOXIC FUMES MAY BE EMITTED DURING COMBUSTION. Spill Release Procedures: EVACUATE AND VENTILATE AREA. SHUT OFF SOURCE OF SPILL. REMOVE SOURCES OF HEAT AND IGNITION, AND IF POSSIBLE, COMBUSTIBLES. Neutralizing Agent:NONE

Handling and Storage P

recautions:STORE IN WELL-VENTILATED AREAS ONLY. KEEP VALVE PROTECTION CAP ON CYLINDERS WHEN NOT IN USE AND SECURE CYLINDER WHEN USING TO PROTECT FROM FALLING.

Other Precautions: USE SUITABLE HANDTRUCK TO MOVE CYLINDERS. BE SURE CYLINDER IS A CLOSED PRESSURIZED CYLINDER.

Respiratory Protection: USE A SELF-CONTAINED BREATHING APPARATUS IN CASE OF EMERGENCY.

Ventilation: PROVIDE ADEQUATE LOCAL EXHAUST VENTILATION TO MAINTAIN

CONCENTRATION BELOW EXPOSURE LIMITS.

Protective Gloves:RUBBER

Eye Protection:SAFETY GOGGLES

Other Protective Equipment:SAFETY SHOES, EYEWASH, EMERGENCY SHOWER. Work Hygienic Practices:PROTECT CONTAINERS FROM PHYSICAL DAMAGE. DO NOT DEFACE CYLINDERS OR LABELS.

Supplemental Safety and Health

CYLINDERS SHOULD BE REFILLED BY QUALIFIED PRODUCERS OF COMPRESSED GASES. SHIPMENT OF A COMPRESSED GAS CYLINDER WHICH HAS NOT BEEN FILLED BY THE OWNER OR WITH HIS WRITTEN CONSENT IS A V IOLATION OF

FEDE RAL LAW.

HCC:G4 Boiling Pt:B.P. Text:GAS Vapor Pres:GAS Evaporation Rate & amp; Reference:GAS Solubility in Water:SLIGHT Appearance and Odor:CLEAR, COLORLESS GAS MIXTURE, SLIGHT ETHERAL ODOR FROM DICHLORODIFLUOROMETHANE Percent Volatiles by Volume:100 %

Stability Indicator/Materials to Avoid:YES ALKALI OR ALKALINE EARTH METALS, OXIDI ZING AGENTS, PHOSPHINE, HYDRAZINE, ETHERS, ALCOHOLS, HYDROGEN SULFIDE, HYDROCARBON Stability Condition to Avoid:EXTREME TEMPERATURES, PHYSICAL DAMAGE Hazardous Decomposition Products:HYDROCHLOIC ACID, HYDROFLUORIC ACID, TOXIC FUMES OF PHOSGENE & FLUORIDE, HALOGENS, CARBONYL HALIDES.

Waste Disposal Methods:RETURN CYLINDERS TO SUPPLIER FOR PROPER DISPOSAL WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTI ON

CAP IN PLACE.

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particular situation.