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SCOTT SPECIALTY GASES -- CALIBRATING GASES, MIXTURE VARIOUS COMPONEN

6830-00-498-4241

============= Product Identification =================

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

======= Composition/Information on Ingredients ========

Ingred Name: CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000 Fraction by Wt: 1.3% OSHA PEL:5000 P PM

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:7 6-14-2

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

========= Hazards Identification =============

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, CARDIAC
ARRHYTHMIAS, DISORIENTATION, SKIN CONTACT MAY CAUSE FROSTBITE, HEADACHE, VISUAL/HEARING DISTURBANCES, SEIZURES. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.
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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 AFFECT ED AREA WITH LOTSOF TEPID WATER. DO NOT APPLY DIRECT HEAT. DO NOT RUB FROZEN AREA.
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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 Hazar
d:HIGH OXIDIZING ATMOSPHERE INCREASES CHANCE OF FIRES. FLASH DANGER IS PRESENT. CYLINDERS MAY RUPTURE. TOXIC FUMES MAY BE EMITTED DURING COMBUSTION.
========= Accidental Release Measures ===========
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 Pr

ecautions: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. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: USE A SELF-CONTAINED BREATHING APPARATUS IN CASE OF EMERGENCY. Ventilation:PROVIDE ADEQUATE LOCAL EXHAUST VENTILATION TO M AINTAIN CONCENTRATION BELOW EXPOSURE LIMITS. Protective Gloves: RUBBER **Eve 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 VI **OLATION OF** FEDE RAL LAW. ======== Physical/Chemical Properties =========== HCC:G4 Boiling Pt:B.P. Text:GAS Vapor Pres:GAS Evaporation Rate & Dr. Reference: GAS Solubility in Water:SLIGHT Appearance and Odor: CLEAR, COLORLESS GAS MIXTURE, SLIGHT ETHERAL ODOR FROM DICHLORODIFLUOROMETHANE Percent Volatiles by Volume:100 %

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES ALKALI OR ALKALINE EARTH METALS, OXIDIZ ING 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.

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

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

CAP IN PLACE.

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