

713030 CALIBRATION GAS MIXTURE

MSDS Number

BRBDS

National Stock Number

6830-00F027817

Product Name

713030 CALIBRATION GAS MIXTURE

Manufacturer

PPG BIOMEDICAL SYSTEMS INC

Product Identification

Product ID:713030 CALIBRATION GAS MIXTURE

MSDS Date:02/08/1990

FSC:6830

NIIN:00F027817

MSDS Number: BRBDS

Responsible Party

PPG BIOMEDICAL SYSTEMS INC

16505 W 113TH ST

LENEXA , KS 66219

US

Emergency Phone: 304-843-1300

Info Phone: 800-321-3251, 913-894-7500

Cage: 0ASU5

Contractor

PPG BIOMEDICAL SYSTEMS INC

LENEXA, KS 66219

US

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Cage: 0ASU5

Ingredients

FORANE, ISOFLURANE, 1-CHLORO-2,2,2-TRIFLUOROETHYL

CAS: 26675-46-7

RTECS: KN6799000

Fraction By Weight: 1%

OSHA PELASPHYXIAN

FLUOTHANE, HALOTHANE

CAS: 151-67-7

RTECS: KH6550000

Fraction By Weight: 1%

OSHA PELASPHYXIAN

ACGIH TLV: 50 PPM

CARBON DIOXIDE

CAS: 124-38-9

RTECS: FF6400000

Fraction By Weight: 5%

OSHA PEL5000 PPM

ACGIH TLV: 5000PPM/30000STEL;93

OXYGEN (GAS)

CAS: 7782-44-7

RTECS: RS2060000

Fraction By Weight: 30%

NITROUS OXIDE, NITROGEN OXIDE, NITROGEN MONOXIDE

CAS: 10024-97-2

RTECS: QX1350000

Fraction By Weight: 62%

OSHA PELASPHYXIAN

ACGIH TLV: 1050 MG/CUM

ENFLURANE, ANESTHETIC COMPOUND, ANESTHETIC GAS

CAS: 13838-16-9

RTECS: KN6800000

Fraction By Weight: 1%

OSHA PELASPHYXIAN

ACGIH TLV: 75 PPM

Hazards

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION: CENTRAL NERVOUS SYSTEM

DEPRESSION, ANESTHESIA, HEADACHE, DIZZINESS, FATIGUE, HEPATIC

NECROSIS, CARDIAC ARREST, HYPOTENSION, RESPIRATORY ARREST, CARDIAC

ARRHYTHMIAS, HYPERPYREXIA, SHIVERING , NAUSEA, & VOMITING.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION: NERVOUS SYSTEM, LIVER & KIDNEY

DISEASE, SPONTANEOUS ABORTIONS, FETAL ABNORMALITIES, & MENSTRUAL

IRREGULARITIES.

First Aid

First Aid:INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING STOPS, ADMINISTER ARTIFICIAL RESPIRATION. EYES: IMMEDIATELY FLUSH W/LARGE AMOUNTS OF TEPID POTABLE WATER. SK IN: REMOVE CONTAMINATED CLOTHING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Fire Fighting

Flash Point:NONE

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR MATERIAL FUELING FIRE.

Fire Fighting Procedures:COOL FIRE EXPOSED CONTAINERS W/WATER SPRAY TO AVOID EXCESSIVE PRESSURE. WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:PRESSURE CAN BUILD UP IN CONTAINERS DUE

TO HEAT. CYLINDER MAY EXPLODE IF PRESSURE RELIEF DEVICES SHOULD FAIL TO RELIEVE PRESSURE.

Accidental Release

Spill Release Procedures:EVACUATE ALL PERSONNEL. VENTILATE UNTIL ALL TRACES ARE ELIMINATED. SHOULD THE LEAK BE THE USER'S EQUIPMENT, PURGE & CHECK USING INERT GAS PRIOR TO ATTEMPTING REPAIRS.

Handling

Handling and Storage Precautions:CYLINDERS SHOULD NOT BE DROPPED, DRAGGED, SLID OR ROLLED. KEEP PROPERLY SECURED & IN UPRIGHT POSITION TO PREVENT CYLINDERS FROM BEING KNOCKED OVER.

Other Precautions:FULL & EMPTY CYLINDERS SHOULD BE KEPT SEGREGATED. MATERIAL CAN BE STORED OUTSIDE. TEMPERATURE SHOULD BE KEPT BELOW 125F. USE ONLY IN WELL VENTILATED AREAS. DON'T INHALE GAS FROM CYLINDER. CYLINDERS MUST NOT BE RECHARGED.

Exposure Controls

Respiratory Protection:USE SELF-CONTAINED BREATHING APPARATUS IF VENTILATION IS NOT ADEQUATE TO KEEP BELOW TLV LEVELS

Ventilation:LOCAL MECHANICAL TO KEEP CONCENTRATIONS BELOW RECOMMENDED LIMITS

Eye Protection:SAFETY GLASSES OR GOGGLES W/SIDE SHIELDS

Other Protective Equipment:SAFETY SHOES

Supplemental Safety and Health

Chemical Properties

Vapor Pres:760

Vapor Density:>1

Appearance and Odor:COLORLESS GAS W/SWEET PUNGENT ODOR

Percent Volatiles by Volume:100

Stability

Stability Indicator/Materials to Avoid:YES

STRONG REDUCING AGENTS, COMBUSTIBLES, OIL & GREASE

Hazardous Decomposition Products:ORGANIC CHLORINE & FLUORINE PRODUCTS, HYDROGEN FLUORIDE & HYDROGEN CHLORIDE

Disposal

Waste Disposal Methods:SLOWLY VENT TO ATMOSPHERE IN OPEN AIR OR THROUGH APPROPRIATE GAS SCAVENGING SYSTEM. THIS CYLINDER IS NOT INTENDED FOR REFILL, DISPOSE OF IN ACCORDANCE W/FEDERAL, STATE & LOCAL REGULATIONS.

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