

PROPANE

MSDS Number

BSDDZ

National Stock Number

6830-00-261-7445

Product Name

PROPANE

Manufacturer

MATHESON GAS PRODUCTS

Product Identification

Product ID:PROPANE
MSDS Date:06/25/1990
FSC:6830
NIIN:00-261-7445
MSDS Number: BSDDZ

Responsible Party

MATHESON GAS PRODUCTS

30 SEAFIEW DRIVE

SEACAUCUS , NJ 07096

US

Emergency Phone: 201-867-4100/CHEMTREC 800-424-9300

Info Phone: 201-867-4100/CHEMTREC 800-424-9300

Cage: 0FB11

Contractor

MATHESON GAS PRODUCTS

SEACAUCUS, NJ 07096

US

201-867-4100, CHEMTREC 800-424-9300

Cage: 0FB11

Ingredients

PROPANE

CAS: 74-98-6

RTECS: TX2275000

Fraction By Weight: 100%

OSHA PEL1000 PPM

ACGIH TLV: ASPHYXIA NT; 9293

Hazards

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:LIQUID MAY CAUSE FROSTBITE, BLISTERS,
BLURRY VISION TO SKIN/EYES. NARCOTIC/SIMPLE ASPHYXIA NT. HIGH
CONCENTRATIONS MAY CAUSE
DIZZINESS/DISORIENTATION/EXCITATION/HEADACHE/VOMITING/UNCONSCIOUSNESS
DUE TO ASPHYXIATION.
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT

CARCINOGENS.

Effects of Overexposure:ABOVE 100,000 PPM; SYMPTOMS OF EXPOSURE MAY INCLUDE DIZZINESS, STUPOR, AND UNCONSCIOUSNESS. ACGIH CLASSIFIES PROPANE AS AN ASPHYXIAN. FROSTBITE/BLISTERS/REDNESS/BLURRED VISION/PAIN.

Medical Cond Aggravated by Exposure:NONE KNOWN

First Aid

First Aid:EYES:WASH W/LAG AMTS WATER FOR 15-20MIN. CALL DOCTOR. SKIN:FROSTBITE:WARM AREA W/LUKEWARM WATER OR WRAP IN BLANKETS.EXERCISE AFFECTED PART FOR CIRCULATION. INHAL:REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE CPR & OXYGEN. KEEP WARM & @REST. CALL DOCTOR. INGEST:TREAT LIPS/MOUTH/MUCOUS MEMBRANES FOR FROSTBITE. CALL DOCTOR.

Fire Fighting

Flash Point:=-105.C, -157.F
Autoignition Temp:=450.C, 842.F
Lower Limits:9.5%
Upper Limits:2.1%
Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, OR HALON. LG FIRES USE WATER SPRAY OR FOG.
Fire Fighting Procedures:MOVE CONTAINER FROM FIRE AREA IF POSSIBLE.COOL FIRE-EXPOSED CONTAINERS W/WATER.W/DRAW IF RISING SOUND FROM VENTING SAFETY DEVICE OR DISCOLORATION OF TANK.
Unusual Fire/Explosion Hazard:DANGEROUS FIRE/EXPLO HAZ WHEN EXPOSED TO HEAT/FLAME.VAPORS HEAVIER THAN AIR;MAY TRAVEL CONSIDERABLE DISTANCE. SEE SUPPLEMENTAL DATA.

Accidental Release

Spill Release Procedures:STOP LEAK IF POSSIBLE. ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. REDUCE VAPORS W/WATER SPRAY. EVACUATE ALL PERSONNEL. PROPANE IS HEAVIER THAN AIR & CAN SETTLE INTO LOW AREAS. AVOID TOUCHING GAS.
Neutralizing Agent:NOT APPLICABLE.

Handling

Handling and Storage Precautions:DO NOT DROP CYLINDER. STORE IN CONTAINERS MEETING BONDING & GROUNDING GUIDELINES SPECIFIED IN NFPA 77-1983, RECOMMENDED PRACTICE ON STATIC ELECTRICITY.
Other Precautions:STORAGE TEMPERATURE SHOULD BE KEPT BELOW 125F. CYLINDERS MUST NOT BE RECHARGED.

Exposure Controls

Respiratory Protection:SELF-CONTAINED BREATHING APPARATUS WHERE THE CONCENTRATION OF PROPANE WOULD REDUCE OXYGEN LEVEL BELOW 18% IN INHALED AIR.
Ventilation:USE EXPLOSION PROOF VENTILATION EQUIPMENT.
Protective Gloves:INSULATED LEATHER GLOVES AS REQUIRED.
Eye Protection:SAFETY GLASSES, GOGGLES OR FACE SHIELD
Other Protective Equipment:PROTECTIVE CLOTHING FOR MINIMUM SKIN CONTACT. NONE NORMALLY REQUIRED. EYE WASH FOUNTAIN & QUICK DRENCH SHOWER.
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. USE PROPER CARE WHEN HANDLING AND STORING CYLINDERS.
Supplemental Safety and Health
LOW ELECTROCONDUCTIVITY OF PROPANE, FLOW OR AGITATION MAY GENERATE ELECTROSTATIC CHARGES RESULTING IN SPARKS W/POSSIBLE IGNITION. REFER TO CGA BULLETIN SB-2 "OXYGEN DEFICIENT ATMOSPHERES".
STIMULANTS SUCH AS EPINEPHRINE MAY INDUCE VENTRICULAR FIBRILLATION.

Chemical Properties

HCC:G2
Boiling Pt:=-42.2C, -44.F
Melt/Freeze Pt:=-190.C, -310.F

Vapor Pres:6536
Vapor Density:1.55
Spec Gravity:0.5853 @-45C
Solubility in Water:VERY SLIGHTTLY
Appearance and Odor:COLORLESS GAS WITH A CHARACTERISTIC NATURAL GAS
ODOR.

Stability

Stability Indicator/Materials to Avoid:YES
BARIUM PEROXIDE, CHLORINE DIOXIDE, PLASTICS, RUBBER, COATINGS, STRONG
OXIDIZING AGENTS.
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES
OF IGNITION. CYLINER UNDER PRESSURE-MAY EXPLODE. VAPORS MAY BE
EXPLOSIVE.
Hazardous Decomposition Products:CARBON MONOXIDE, TOXIC OXIDES OF
CARBON.

Disposal

Waste Disposal Methods:MOVE LEAKY CYLINDER TO OUTDOORS OR VENTILATED
HOOD. ALLOW GAS TO DISCHARGE AT MODERATE RATE. DISPOSE IAW
FED/STATE/LOCALREGULATIONS.

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