

## **PROPANE HD-5**

### **MSDS Number**

BHDDW

### **National Stock Number**

6830-00-261-7445

### **Product Name**

PROPANE HD-5

### **Manufacturer**

UNION OIL CO OF CALIFORNIA

### **Product Identification**

Product ID:PROPANE HD-5

MSDS Date:08/03/1984

FSC:6830

NIIN:00-261-7445

MSDS Number: BHDDW

### **Responsible Party**

UNION OIL CO OF CALIFORNIA

461 S BOYLSTON ST

LOS ANGELES , CA 90017-1443

US

Emergency Phone: 202-483-7616

Info Phone: 213-977-6294

Cage: 79003

### **Contractor**

UNION OIL CO OF CA UNION 76 DIV- WESTERN REGION

7600

LOS ANGELES, CA 90017-1443

US

Cage: 79003

### **Ingredients**

PROPANE

CAS: 74-98-6

RTECS: TX2275000

Fraction By Weight: 90%

OSHA PEL1000 PPM

ACGIH TLV: ASPHYXIAN; 9192

### **Hazards**

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

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

Health Hazards Acute and Chronic:THIS PRODUCT IS AN ASPHYXIAN AND MAY EXHIBIT ANESTHETIC PROPERTIES AT VERY HIGHCONCENTRATIONS. INITIAL SYMPTOMS OF EXPOSURE AT THESE CONCENTRATIONS ARE DIS-ORIENTATION, LACK OF COORDINATION, EXCIT ATION, HEADACHE AND NAUSEA. CONTINUEDEXPOSURE MAY RESULT IN UNCONSCIOUSNESS, COMA AND DEATH.

Effects of Overexposure:EYE EFFECTS: MAY CAUSE MOMENTARY FREEZING,

FOLLOWED BY SLIGHT SWELLING AND SUPERFICIAL CORNEAL DAMAGE. SKIN EFFECTS: MAY CAUSE SKIN BURNS AND FROSTBITES. INHALATION: MAY CAUSE DISORIENTATION, LACK OF COORDINATION, EXCITATION, HEADACHE AND NAUSEA. CONTINUED EXPOSURE MAY RESULT IN UNCONSCIOUSNESS, COMA AND DEATH.

## First Aid

First Aid: EYE CONTACT: CLEAN AND SEEK MEDICAL ATTENTION. SKIN CONTACT: TREAT BURNED OR FROSTBITTEN SKIN BY FLUSHING IN LUKEWARM WATER. IF BLISTERING OCCURS, APPLY STERILE DRESSING AND SEEK MEDICAL ATTENTION IMMEDIATELY. INHALATION: MOVE TO FRESH AIR. IF VICTIM ISN'T BREATHING GIVE CPR AND SUPPLEMENTAL OXYGEN.

## Fire Fighting

Flash Point: -156F

Extinguishing Media: STOP FLOW OF GAS. EXTINGUISH PROPANE FIRE USING DRY CHEMICAL OR CO<sub>2</sub> ONLY WHEN PROPANE FLOW MAY BE STOPPED. OR LET BURN OUT

Fire Fighting Procedures: USE OF S.C.B.A. RECOMMENDED. COOL CONTAINERS EXPOSED TO HEAT AND FLAME WITH WATER. MOVE CONTAINERS FROM AREA IF W/O RISK.

Unusual Fire/Explosion Hazard: VAPOR IS HEAVIER THAN AIR AND MAY TRAVEL A LONG DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY EXPLODE.

## Accidental Release

Spill Release Procedures: EVACUATE AREA. USE S.C.B.A. TURN OFF GAS FLOW AND REMOVE ALL SOURCES OF IGNITION. KEEP VENTILATION GOING. IF LIQUID GAS HAS NOT BEEN IGNITED, DISPERSE WITH WATER SPRAY OR BY FLOODING. ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS IF TANK OR TANK CAR ON FIRE.

## Handling

Handling and Storage Precautions: STORE IN WELL VENTILATED AREAS, AWAY FROM HEAT, DIRECT SUNLIGHT, AND SOURCES OF IGNITION. KEEP AWAY FROM INCOMPATIBLE MATERIALS.

Other Precautions: ELECTRICALLY BOND AND GROUND ALL LINES AND EQUIP USED WITH THIS PRODUCT. INSTALL PROTECTIVE CAPS FOR SHIPMENT. PROPANE IS FLAMMABLE IN ATMOSPHERIC CONCENTRATIONS BETWEEN 2.1% AND 9.5% VOLUME PERCENT.

## Exposure Controls

Respiratory Protection: THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR OR GAS CONCENTRATION ABOVE THE APPLICABLE TLV.

Ventilation: GENERAL MECHANICAL VENTILATION, IF GENERAL VENTILATION IS INADEQUATE, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED.

Protective Gloves: WEAR THERMALLY INSULATED GLOVES

Eye Protection: PROTECTIVE FACE SHIELD/CHEMICAL GOGGLES.

Other Protective Equipment: SELF-CONTAINED RESPIRATORS SHOULD BE AVAILABLE FOR NON-ROUTINE AND EMERGENCY SITUATIONS.

Supplemental Safety and Health

POST "NO SMOKING OR OPEN FLAME" SIGNS.

## Chemical Properties

HCC: G2

Boiling Pt: B.P. Text: -44F

Vapor Density: HEAVIER

Spec Gravity: 0.51

Evaporation Rate & Reference: FASTER THAN ETHER

Solubility in Water: SLIGHTLY

Appearance and Odor: CLEAR LIQUID - GARLIC-LIKE ODOR. OXIDIZED - SMELLS LIKE ROTTEN EGGS. ATMOS. - GAS

Percent Volatiles by Volume: 100

## Stability

Stability Indicator/Materials to Avoid: YES

AVOID CONTACT WITH STRONG OXIDIZING AGENTS

Stability Condition to Avoid: AVOID CONTACT WITH SPARKS, OPEN FLAME OR ANY SOURCE OF IGNITION.  
Hazardous Decomposition Products: THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE.

## **Disposal**

Waste Disposal Methods: DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, STATE/COUNTY, AND FEDERAL REGULATIONS.

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