

UNION OIL CO OF CALIFORNIA -- CARBON DIOXIDE-LIQUID -- 4220-00-920-3651

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

Product ID:CARBON DIOXIDE-LIQUID

MSDS Date:01/01/1987

FSC:4220

NIIN:00-920-3651

MSDS Number: BLJXV

=== Responsible Party ===

Company Name:UNION OIL CO OF CALIFORNIA

Address:461 S BOYLSTON ST

Box:7600

City:LOS ANGELES

State:CA

ZIP:90017-1443

Country:US

Info Phone Num:213-664-2121, HEALTH INFORMATION

Emergency Phone Num:800-424-9300, TRANSPORTATION

CAGE:790

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=== Contractor Identification ===

Company Name:AMERICAN SAFETY FLIGHT SYSTEMS INC

Address:1311 GRAND CENTRAL AVE

Box:City:GLENDALE

State:CA

ZIP:91201-2427

Country:US

Phone:818-240-1080/FAX 241-5296 M.JACKSON

CAGE:31441

Company Name:UNION OIL CO OF CA UNION 76 DIV- WESTERN RGION

Address:1201 W 5TH ST

Box:7600

City:LOS ANGELES

State:CA

ZIP:90017-1443

Country:US

CAGE:79003

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

Ingred Name:CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF640

0000  
Fraction by Wt: 100%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:5000 PPM  
ACGIH TLV:5000PPM/30000STEL;93

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:LIQUID RELEASED TO ATMOSPHERE TURNS TO  
SOLID CARBON DIOXIDE (WHICH MAY FREEZE SKIN). GASEOUS CARBON  
DIOXIDE (AT 2 TO 3%) IS A SIMPLE ASPHYXICANT.  
Effects of Overexposure:A  
SPHYXIA IN HIGH CONCENTRATIONS. HEADACHE.  
DIZZINESS. INCREASE IN HEART RATE AND CARDIAC OUTPUT.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid:SOLID CARBON DIOXIDE: TREAT FOR FROSTBITE. GASEOUS: REMOVE  
FROM EXPOSURE. RECOVERY IS RAPID.

===== Fire Fighting Measures =====

Flash Point:NON-FLAMMABLE  
Extinguishing Media:THIS PRODUCT EXTINGUISHES FIRE.  
Fire  
Fighting Procedures:NONE  
Unusual Fire/Explosion Hazard:NONE

===== Accidental Release Measures =====

Spill Release Procedures:PROVIDE VENTILATION. BEWARE OF THE POSSIBILITY  
OF FROSTBITE.  
Neutralizing Agent:NONE

===== Handling and Storage =====

Handling and Storage Precautions:USE AND STORE THIS PRODUCT WITH  
ADEQUATE VENTILATION. AVOID DIRECT CONTACT WITH SKIN.  
Other Precautions:NONE

===== Exposure Controls/Perso

nal Protection =====

Respiratory Protection:USE SELF-CONTAINED BREATHING APPARATUS WHEN  
VAPOR CONCENTRATIONS ARE ABOVE THE TLV.

Ventilation:USE LOCAL EXHAUST VENTILATION.

Protective Gloves:IMPERMEABLE GLOVES.

Eye Protection:SAFETY GLASSES, CHEMICAL GOGGLES

Other Protective Equipment:A FACESHIELD MAY BE NECESSARY.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NONE

===== Physical/Chemical Properties =====

HCC:G3

V

apor Density:> AIR

Spec Gravity:1.101 AT -34.6F

Evaporation Rate & Reference:> ETHER

Appearance and Odor:COLORLESS LIQUID

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

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:DO NOT PUT LIQUID CARBON DIOXIDE IN A LOW  
PRESSURE TANK OR ONE WITHOUT A RELIEF VALVE.

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:BLOW  
TO ATMOSPHERE.

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