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Product ID:CARBON DIOXIDE MSDS Date:05/15/1991 FSC:6830 NIIN:01-303-4386 **MSDS Number: BQYNS** === Responsible Party === **Company Name: ANSUL FIRE PROTECTION** Address: ONE STANTON STREET City:MARINETTE State:WI ZIP:54143-2542 Country:US Info Phone Num:715-735-7411 Emergency Phone Num:715-735-7411 Preparer's Na me:SAFETY & HEALTH DEPT CAGE:03670 === Contractor Identification === Company Name: ANSUL INC Address: ONE STANTON STREET Box:City:MARINETTE State:WI ZIP:54143-2542 Country:US Phone:715-735-7411 CAGE:03670 Ingred Name:CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Fraction by Wt: 100% Other REC Limits:NONE SPECIFIED OSHA PEL:5000 PPM ACGIH TLV:5000PPM/30000STEL;93

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LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE:PHYSICAL CONTACT WITH

LIQUEFIED/SOLID CARBON DIOXIDE CAN CAUSE FROSTBITE OR FREEZE BURNS.INHALATION OF VAPOR IN CONCENTRATION OF 3-5% BY VOLUME IN AIR CAUSES INCREASED RESPIRATION & HEADACHE;8-1 5% CAUSES HEADACHE,NAUSEA,VOMITING & UNCONSCIOUSNESS.HIGHER CONCENTRATION MAY LEAD TO

COMA & DEATH.CHRONIC:UNKNOWN.

Explanation of Carcinogenicity: THIS PRODUCT IS NOT LISTED BY NTP, IARC, OR OSHA

Effects of Overexposure: VAPOR IS HEAVIER THAN AIR AND CAN CAUSE SUFFOCATION BY REDUCING AVAILABLE OXYGEN FOR BREATHING. MAY CAUSE DIZZINESS, IMPAIRED COORDINATION, REDUCED MENTAL ACUITY, HEADACHE, DIFFICULTY BREATHING, DROWS INESS, DEPENDING ON LENGTH OF EXPOSURE AND CONCENTRATIONS.

Medical Cond Aggravated by Exposure:RESPIRATORY PROBLEMS

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First Aid:GET MEDICAL ATTENTION. INHALATION:REMOVE TO FRESH AIR.PROVIDE CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH PLENTY OF TEPID WATER/STERILE SALINE. SKIN:FLUSH WITH LUKEWARM WATER.DO NOT USE HOT WATE R. PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO CO2. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF CONTAINED BREATHING APPARATUS.

Flash Point:NONE

Extinguishing Media: FIRE EXTINGUISHING AGENT. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:HMIS: IGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:THOUGH GAS CYLINDERS ARE EQUIPPED WITH PRESSURE AND TEMPERATURE RELIEF DEVICES, THEY SHOULD BE REMOVED FROM HIGH TEMPERATURES OR FIRE TO AVOID RISK OR RUPTURE.

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Spill Release Procedures: EVACUATE AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. PROVIDE VENTILATION TO AREA & AVOID CONTACT WITH SOLID/LIQUID OR INHALATION OF VAPOR. VALVE OFF CARBON DIOXIDE SUPPLY FROM LEAKING OR BROKEN COMPON ENTS. ELIMINATE FLAMES, HOT SURFACES.

Neutralizing Agent:NOT APPLICABLE.

Handling and Storage Precautions:STORE IN A COOL (UNDER 130F), DRY, WELL VENTILATED PLACE. DO NOT INSTALL STORAGE VESSELS IN SUB-SURFACE, CLOSED AREA OR NEAR HEAT/FLAME.
Other Precautions:AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES OR SKIN. USE WITH ADEQUATE VENTILATION. SECURE ALL CYLINDERS.

Respiratory Protection:WHEN EXPOSED ABOVE TLV, WEAR NIOSH APPROVED POSITIVE PRESSURE AIR LINE RESPIRATOR WITH FULL FACE PIECE AND ESCA

PE AIR SUPPLY OR SELF CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE .

Ventilation:SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST SHOULD BE LOCATED NEAR THE FLOOR.

Protective Gloves: INSULATED AND COLD RESISTANT

Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. Supplemental Safety and Health KEY2:KT

HCC:G3 Boiling Pt:B.P. Text:SUBLIMES Decomp Temp:Decomp Text:SUBLIMES Vapor Pres:42928 @20C Vapor Density:1.5 Spec Gravity:1.98 Evaporation Rate & amp; Reference:GAS AT ROOM TEMPERATURE Solubility in Water:88% @ 20C Appearance and Odor:COLORLESS GAS - NO ODOR Percent Volatiles by Volume:100

Stab

 ility Indicator/Materials to Avoid:YES
 REACTS VIOLENTLY WITH STRONG BASES, ALKALI METALS
 Stability Condition to Avoid:FLAMES, HIGH TEMPERATURE (CAUSE OVER PRESSURE)
 Hazardous Decomposition Products:NONE
 Conditions to Avoid Polymerization:WILL NOT OCCUR

Waste Disposal Methods:CONTAMINATED AREA SHOULD BE VENTILATED THOROUGHLY. SOLID CARBON DIOXIDE SHOULD BE REMOVED OUT OF DOORS AND ALLOWED TO SUBLIMATE. DISPOSAL SHOU LD BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGU LATIONS.

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