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AIR PRODUCTS AND CHEMICALS INC. -- CARBON DIOXIDE (GAS) / DRY ICE (SOLID) 6830-00-292-0142

Product ID:CARBON DIOXIDE (GAS) / DRY ICE (SOLID) MSDS Date:06/01/1990 FSC:6830 NIIN:00-292-0142 MSDS Number: BWCWX === Responsible Party === Company Name: AIR PRODUCTS AND CHEMICALS INC. Box:538 City:ALLENTOWN State:PA ZIP:18105 Country:US Info Phone Num:215-481-4911 Em ergency Phone Num:215-481-4911 CAGE:00742 === Contractor Identification === Company Name: AIR PRODUCTS AND CHEMICALS INC Address:7201 HAMILTON BLVD Box:City:ALLENTOWN State:PA ZIP:18195-1501 Country:US Phone:800-345-3148/800-752-1597 CAGE:00742 Company Name: SPECIALTY GAS TECHNOLOGY Address:10207-D CHAPEL HILL RD Box:City:MORRISVILLE Phone:800-876-9581 CAGE:0Y5M5

Ingred Name:CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Fracti on by Wt: 100% Other REC Limits:NONE RECOMMENDED OSHA PEL:5000 PPM ACGIH TLV:5000PPM/30000STEL;94

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: CARBON DIOXIDE IS AN ASPHIXIANT. AS A LIQUID OR SOLID, ITS HIGH RATE OF EVAPORATION CREATES AN INTENSE COOLING OF THE BODY TISSUE CONTACTED WHICH RESULTS IN FROSTBITE. Explanation of Carcinogenicity: PRODUCT IS NOT LISTED AS A CARCINOGEN BY IARC, NTP, OR OSHA. Effects of Overexposure: CONTACT: FROSTBITE AND FREEZE BURNS. INHALED: HEADACHE, DIZZINESS SHORTNESS OF BREATH AND OTHER SYMPTOMS OF **OXYGEN STARVATION. HIGH CONCENTRATIONS PRODUCE A SLIGHT ACID TASTE** ANDMAY PARALYSE THE BRE ATHING CONTROL CENTER. Medical Cond Aggravated by Exposure: OVEREXPOSURE MAY AGGRAVATE SOME PULMONARY CONDITIONS. ===== First Aid:CONTACT: FROZEN TISSUE SHOULDBE FLOODED WITH TEPID WATER. GET MEDICAL ASSISTANCE IF ANY SYMPTOMS OF FROSTBITE OR FREEZING APPEAR. INHALED: REMOVE FROM EXPOSURE. RESTORE BREATHING. BE CAUTIOUS ENTE RING CLOSED AREAS IN A RESCUE EFFORT IFWITHOUT A SUPPLIED-AIR BREATHING APPARATUS. Extinguishing Media: CARBON DIOXIDE IS AN EXTINGUISHING AGENT FOR CLASS **BAND C FIRES.** Fire Fighting Procedu res:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. Spill Release Procedures: PLACE LEAKING CYLINDERS OUTSIDE OR WHERE LEAK IS EXHAUSTED BY LOCAL EXHAUST. Neutralizing Agent:NONE

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED ARE A. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions: USE A SAFETY LINE, A STAND-BY WORKER AND A SUPPLIED AIR RESPIRATOR WHEN ENTERING AREAS OF SUSPECTED OR KNOWN HIGH CONCENTRATION.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection: RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FO **R REGULATIONS PERTAINING TO RESPIRATOR USE.** Ventilation: GENERAL ROOM VENTILATION IS NORMALLY ADEQUATE. USE LOCAL EXHAUST IF NECESSARY TO CONTROL EXPOSURE BELOW PEL/TLV. Protective Gloves: THERMAL PROTECTION IF CONTACT POSSIBLE Eye Protection: SAFETY GLASSES OR GOGGLES (NO CONTACTS!) Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED. Work Hygienic Practices: USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID CONTACT WHENEVER POS SIBLE. Supplemental Safety and Health NONE

HCC:G3 Melt/Freeze Pt:M.P/F.P Text:-110F,-79C Vapor Pres:831 PSIG Vapor Density:0.115 Spec Gravity:1.53, LIQUID Solubility in Water:87.8% Appearance and Odor:COLORLESS AND ODORLESS GAS OR LIQUID.

Stability Indicator/Materials to Avoid:YES IF MOISTURE IS PRESENT, MATERIALS MUST RESIST CARBONIC ACID. Stability Condit

ion to Avoid:NONE Hazardous Decomposition Products:NONE

Waste Disposal Methods: ALLOW TO DISSIPATE IN A MANNER THAT THE CARBON DIOXIDE WILL NOT BE SUFFICIENTLY CONCENTRATED TO ENDANGER PERSONNEL OR LIVESTOCK. RETURN CYLINDERS TO AIR PRODUCTS. CLOSE THE CYLINDER VALVE TIGHTLY.

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