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METALCRAFT INC -- M-133-01 CARBON DIOXIDE (CO2) -- 4210-01-364-1623

Product ID:M-133-01 CARBON DIOXIDE (CO2) MSDS Date:09/01/1993 FSC:4210 NIIN:01-364-1623 MSDS Number: BRTJL === Responsible Party === Company Name:METALCRAFT INC Address:718 DEBELIUS AVE City:BALTIMORE State:MD ZIP:21205 Country:US Info Phone Num:410-485-0880/FAX -4451 Emergency Phone Num:800-457 -4280 CAGE:06535 === Contractor Identification === Company Name:METALCRAFT INC Address:9331 PHILADELPHIA ROAD Box:City:BALTIMORE State:MD ZIP:21237 Country:US Phone:410-687-5500 CAGE:06535

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

Routes of

Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:CARBON DIOXIDE IS AN ASPHYXIANT. >12% CAUSES RAPID UNCONSCIOUSNESS AND DEATH. DIRECT CONTACT WITH LIQUID OR SOLID WILL CAUSE BURNS, FROSTBITE OR BLINDNESS. Explanation of Carcinogenicity:NONE OF THE INGREDIENTS IN THIS PRODUCT IS LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN. Effects of Overexposure: HEADACHE, DIZZINESS, SHORTNESS OF BREATH, MUSCULAR WE AKNESS, DROWSINESS, AND RINGING OF THE EARS., FROSTBITE. Medical Cond Aggravated by Exposure: PERSONNEL WITH PRE-EXISTING CHRONIC RESPIRATORY DISEASES OR HEART DISORDER SHOULD REFRAIN FROM BREATHING EXCESSIVE CARBON DIOXIDE. RECOVERY IS USUALLY RAPID FROM SHORT TERM OVEREXPOSURE. First Aid: FIRST AID: INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. RESCUE PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHIN G APPARATUS WIHT FULL FACE MASK. SKIN/EYE: FOR FROSTBITES: RINSE OR BATHE IN L UKEWARM WATER FOR 15 MIN. SEEK MEDICAL HELP IF NECESSARY. Extinguishing Media:NON-FLAMMABLE. THIS MATERIAL IS AN EXTINGUISHING AGENT. Fire Fighting Procedures: EVACUATE ALL PERSONNEL. IMMEDIATELY DELUGE CONTAINERS WITH WATER SPRAY FROM MAXIMUM DISTANCE UNTIL COOL. THEN MOVE CONTAINERS AWAY FROM FIRE IF WITHOUT RISK. Unusual Fi re/Explosion Hazard: CONTAINERS MAY RUPTURE IN HEAT OF FIRE IF RELIEF DEVICE FAILS. Spill Release Procedures: REMOVE PERSONNEL. VENTILATE AREA. WEAR

SELF-CONTAINED BREATHING APPARATUS. MOVE LEAKING CONTAINER OUTDOORS IF WITHOUT RISK. SLOWLY RELEASE INTO ATMOSHPHERE. RETURN DEFECTIVE CYLINDER TO SUPPLIER. TEST AREA FOR OXYGEN BEFORE ALLOWING RE-ENTRY.

Handling and Storage Precautions:STORE CYLINDERS UPRIGHT IN A COOL, DRY LOCATION, AWAY FROM DIRECT HEAT OF FLAME.

Other Precautions: IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN SYSTEM BY VENTING TO A SAFE PLACE, THEN REPAIR LEAK.

Respiratory Protection:WEAR SELF-CONTAINED BREATHING APPARATUS WHEN CONCENTRATIONS ARE ABOVE PEL OR USING IN A CONFINED AREA.

Ventilation: MECHANICAL (GENERAL) AND/OR

LOCAL EXHAUST VENTILATION TO

KEEP EXPOSURE LEVELS BELOW PEL.

Protective Gloves:LEATHER GLOVES.

Eye Protection: SAFETY GLASSES OF FULL FACE SHIELD.

Other Protective Equipment:SELF-CONTAINED BREATHING APPARATUS. SAFETY SHOES. DO NOT WEAR CONTACT LENSES.

Work Hygienic Practices: KEEP SAFETY VALVES IN GOOD WORKING CONDITIONS.

KEEP DEBRIS AND UNNECESSARY EQUIPMENT AWAY FROM CO2 EQUIPMENT. Supplemental Safety and Health

CLOSE VALVE WHEN NOT IN USE AND WHEN EMPTY. CARBON DIOXIDE, BEING HE

AVIER THAN AIR, TENDS TO ACCUMULATE NEAR THE FLOOR OF AN ENCLOSED SPACE DISPLACING THE AIR AND CREATING AN OXYGEN DEFFICIENT ATMOSPH ERE. VENTILATE BEFORE ENTRY. VERIFY SUFFICIENT OXYGEN CONCENTRATION.

HCC:G3 Boiling Pt:B.P. Text:-109F,-78C Vapor Pres:GAS @ 70F Vapor Density:1.52 Solubility in Water:SLIGHT (0.8 V/V) Appearance and Odor:COLORLESS GAS/LIQUID, ODORLESS. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid:AVOID TEMPERATURES HIGHER THAN 125F. Hazardous Decomposition Products:IN THE PRESENCE OF AN ELECTRICAL DISCHARGE, CARBON DIOXIDE IS DECOMPOSED TO FORM CARBON MONOXIDE AND OXYGEN.

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. MANUFACTURER RECOMMENDS VENTING SLOWLY TO ATMO SPHERE WITH ADEQUATE VENTILATIONS. DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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