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METALCRAFT INC -- CARBON DIOXIDE,M-13 $-01 -- 4210-01-391-0784

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

Product ID:CARBON DIOXIDE,M-13 $-01
MSDS Date:01/01/1997
FSC:4210
NIIN:01-391-0784
MSDS Number: CFBBL
=== 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

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

Ingred Name:CARBON DIOXIDE
CAS:124-38-9
RTECS #:FF6400000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;96

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

LD50 LC50 Mixture:TLV IS 5000 PPM.
Rou

tes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:LUNGS, CNS, EYES, SKIN. ACUTE- CONTACT WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION. ASPHYXIANT. INHALATION MAY CAUSE RESPIRATORY ACIDOSIS. HIGH CONCENTRATIONS MAY CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO DEATH. INGESTION IS NOT LIKLEY (GAS). CHRONIC- UNKNOWN.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:EYE OR SKIN FROSTBITE AND FREEZE BURNS, HEADACHE, DROWSINESS, DIZZINESS, STINGING OF THE EYES, NOSE AND THROAT, EXCITATION, RAPID BREATHING AND HEART RATE, EXCESS SALIVATION, SHORTNESS OF BREATH, MUSC ULAR WEAKNESS, RINGING IN THE EAR, UNCONSCIOUSNESS, COMA, NAUSEA, VOMITING, WATERY EYES (FORMATION OF WEAK CABONIC ACID)
Medical Cond Aggravated by Exposure:PERSONNEL WITH PRE-EXISTING CHRONIC RESPIRATORY DISEASES OR HEART DISORDERS SHOULD REFRAIN FRO
M
BREATHING EXCESSIVE CARBON DIOXIDE.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEE AN OPHTHALMOLOGIST, URGENTLY. SKIN:FLUSH WITH WARM WATER (NOT TO EXCEED 107 F). PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO CO2. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF CONTAINED BREATHING APPARATUS.
ORAL:NOT LIKELY.

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

Flash Point:NONE
Lower Limits:NOT RELEVANT
Upper Limits:NOT RELEVANT
Extinguishing Media:CARBON DIOXIDE CANNOT CATCH FIRE. USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL FOR SURROUNDING FIRE.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. EVACUATE AREA.
Unusual Fire/Explo

sion Hazard:CYLINDERS SHOULD BE REMOVED FROM FIRE TO
AVOID RISK OF RUPTURE.

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

Spill Release Procedures:LIQUID CARBON DIOXIDE WILL FORM SOLID CO2 (DRY
ICE) WHEN RELEASED TO ATMOSPHERIC PRESSURE. THE AREA SHOULD BE
VENTILATED. CLEAN UP PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING
APPARATUS WITH FULL FA CE MASK AND HEAVY PROTECTIVE CLOTHING.
Neutralizing Agent:NOT RELEVANT

========== Handling and Stor
age ==========

Handling and Storage Precautions:STORE IN A COOL, WELL-VENTILATED
PLACE. DO NOT STORE ABOVE 120F. KEEP OUT OF REACH OF CHILDREN.
Other Precautions:KEEP AWAY FROM SOURCES OF HEAT. CAUTION! CAN CAUSE
RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY. USE WITH ADEQUATE
VENTILATION. CO2 IS HEAVIER THAN AIR AND TENDS TO ACCUMULATE NEAR
THE FLOOR IN CLOSED S PACES. READ ALL LABELS INSTRUCTIONS.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL USE. HOWEVER,
AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED
SPACES WITH THIS PRODUCT. THE RESPIRATORY PROTECTION USE MUST
CONFORM WITH OSHA RULES AS SPECIF IED IN 29 CFR 1910.134.
Ventilation:SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST
LOCATED NEAR THE FLOOR.
Protective Gloves:INSULATED AND COLD RESISTANT NEOPRENE
Eye Protection:SAFETY GOGGLES RECOMMENDED
Other Protective Equipment:EYE WASH STATIO
N, SAFETY SHOWER,
INDUSTRIAL-TYPE WORK CLOTHING, SAFETY SHOES AND APRON AS REQUIRED.
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES.
Supplemental Safety and Health

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

HCC:G3
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:B.P. Text:-109F,-78C
Vapor Pres:GAS @ 70F
Vapor Density:1.52
Spec Gravity:NOT RELEVANT
pH:ACIDIC
Viscosity:NOT RELEVANT
Evaporation Rate & Reference:NOT RELEVAN

T (GAS)
Solubility in Water:0.8 V/V
Appearance and Odor:COLORLESS LIQUID OR GAS - ODORLESS

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

Stability Indicator/Materials to Avoid:YES
Stability Condition to Avoid:OVERHEATING CYLINDERS
Hazardous Decomposition Products:CARBON MONOXIDE

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

Waste Disposal Methods:SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS.
DISPOSAL SHOULD BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL
REGULATIONS. DEFECTIVE CYLINDERS SHOULD BE TAGGED TO INDICATE A DEFECT.

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