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SUNOX INC -- DRY ICE -- 6830-01-165-6174

Product ID:DRY ICE MSDS Date:10/10/1988

FSC:6830

NIIN:01-165-6174

MSDS Number: BVBLZ === Responsible Party === Company Name:SUNOX INC Address:4236 STATESVILLE RD

Box:33871

City:CHARLOTTE

State:NC ZIP:28233 Country:US

Info Phone Num:704-596-6262

Emergency Phone Num:704-596-6262

CAGE:6Z872

=== Contractor Identification ===

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

Ingred Name: CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000

OSHA PEL:10000PPM; 30000 STEL ACGIH TLV:5000 PPM; 30000 STEL

Ingred Name:MATLS TO AVOID:MAGNESIUM, ALUMINUM, TITANIUM/ZIRCONIUM), THEIR HYDRIDES & MATLS LIKE DIETHYL MAGNESIUM, MOIST (ING 3)

RTECS #:9999999ZZ

Ingred Name: ING 2:CES

IUM OXIDE/LITHIUM ACETYLIDE W/AMMONIA CAN IGNITE
IN CO*2 ATM. DRY ICE CAN FORM SHOCK SENSITIVE MIX WITH (ING 4)
RTECS #:999999ZZ

Ingred Name:ING 3:SODIUM, POTASSIUM OR SODIUM-POTASSIUM ALLOY. RTECS #:9999992Z

Ingred Name:EFTS OF OVEREXP:COULD RSLT IN FROSTBT/CRYOGENIC (FREEZE)
"BURNS." CNTCT W/LIQ/SOLID CAN PRDCE FROSTBT & FREEZE (ING 5)
RTECS #:9999999ZZ

Ingred Name:ING 5:BURNS. EFTS ARE CHANGE IN COLOR OF SKIN TO GRAY/WHITE POSS FOLLOWED BY BLISTERING. CO*2 IS MOST POWERFUL (I NG 7)

RTECS #:9999999ZZ

Ingred Name:ING 6:CEREBRAL VASODIALTOR KNOWN. INHAL LG CONC CAUSES RAPID CIRCULATORY INSUFFICIENCY LEADING TO COMA & DEATH. (ING 8) RTECS #:9999999ZZ

Ingred Name:ING 7:CHRONIC, HARMFUL EFTS ARE NOT KNOWN FROM RPTD INHAL OF LOW (3-5 MOLAR %) CONC.

RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC:MED ASSISTANCE SHOULD BE SOUGHT IMMED. SKIN:FROSTBT:FLUSH AFFECTED AREAS W/LUKEWARM WATER. DO (ING 10) RTECS #:9999999ZZ

Ingred Name:ING 9:NOT USE HOT WATER. MD SHOULD SEE PROMPTLY IF

CRYOGENIC "BURN" HAS RSLTD IN BLISTERING OF DERMAL SURF/DEEP (ING 11)

RTECS #:9999999ZZ

Ingred Name:ING 10:TISS FREEZING. PROMPT MED ATTN MANDATORY IN ALL CASES OF OVEREXP. RESCUE PERS SHOULD BE EQUIPPED WITH (ING 12) RTECS #:9999999ZZ

Ingred Name: ING 11:NIOSH/MSHA SELF-CONTAINED BREATHING APPARATUS. RTECS #:9999992Z

Ingred Name:WASTE DISP METH:HVR/AIR. DO NOT PUT DRY ICE IN CLSD CNTNR WHERE EVOLVED GAS CANNOT ESCAPE! REMOVE SCRAP SOLID (ING 14) RTECS #:99999

Ingred Name:ING 13:("SNOW" OR "DRY ICE") TO HOOD W/FORCED VENT OR TO A REMOTE OUTSIDE AREA. ALLOW SOLID TO SUBLIME. RTECS #:9999992Z

Ingred Name: HNDLG/STOR PREC: WHICH OPEN FROM TOP HAVING LOOSE-FITTING LIDS SO CO*2 VAPOR FROM SUBLIMATION OF SOLID MAY BE (ING 16) RTECS #:9999999ZZ

Ingred Name:ING 15:ALLOWED TO ESCAPE INTO ATM. FOR ADDNL HNDLG & STOR RECOM SEE CGA PAMPHLETS P-1 & G-6.

RTECS #:9999999ZZ

Ingred Name:OTHER PREC:W/MOST PLASTICS & ELASTOMERS. ALSO SEE CGA PAMP

HLET G-6.3.

RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:TEMP) TO PVNT FREEZE BURNS & FROSTBT IF MORE THAN MOMENTARY CNTCT W/CO*2 AT LOW TEMP IS POSS. RTECS #:9999992Z

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:NERVOUS SYS CONTROL OF RESP IS

DEPENDENT ON CO*2 LEVEL BR

EATHED IN AIR. BY REDUCING O*2 LEVEL IN

AIR, CO*2 CAN CAUSE SUFFOCATION. SYMP OF OVEREXP INCL HDCH, DIZZ, SHORTNESS OF BREATH, MUSC WEAK, DROW & RINGING IN EARS. INHAL:LOW CONC (3-5 MOLAR %) CAUSE INCR RESP & HDCH. 8-15 MOLAR % CONC CAUSE HDCH, (EFTS OF OVEREXP)

Explanation of Carcinogenicity: NOT RELEVANT

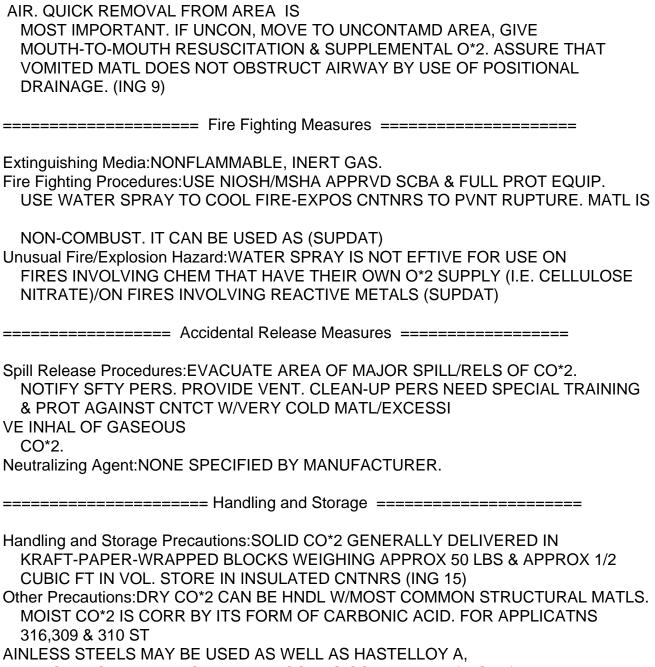
Effects of Overexposure:HLTH HAZ:NAUS & VOMIT WHICH MAY LEAD TO UNCON IF NOT MOVED TO OPEN AIR/GIVEN O*2. HIGH CONC CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO COM

A & DEATH. WHEN

REFRIGERATED LIQ CO*2 IS VAPORIZED THRU AN ORIFICE, IT CAN FORM SOLID PARTICLESOF CO*2 ("SNOW"/"DRY ICE" PWDR). CONTINUOUS DERMAL CNTCT W/COLD SNOW (ING 5)

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid:INGEST:CALL MD IMMED. EYES:IMMED FLUSH W/POTABLE WATER FOR MIN OF 15 MIN, SEEK ASSISTANCE FROM MD. INHAL:IF CONSCIOUS, ASSIST TO UNCONTAMD AREA & INHALE FRESH



AINLESS STEELS MAY BE USED AS WELL AS HASTELLOY A, B & C & MONEL. A T NORM TEMP, CO*2 IS COMPATIBLE (ING 17)

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

Respiratory Protection: PROVIDE NIOSH/MSHA APPRVD SUPPLIED-AIR OR SELF-CONTAINED RESP FOR USE IN NON-ROUTINE/EMER SITUATIONS W/EXPOS ABOVE TLV. FULL FACEPIECE IS REQD FOR CONC > 10%. PROVIDE STANDBY PERSON(S) W/RESCUE EQUIP IF WORK REQD AT > 15% CO*2 IN AIR. Ventilation: GENERAL AND LOCAL EXHAUST VENTILAT

ION TO MEET TLV REQUIREMENTS.

Protective Gloves: LOOSE FITTING, INSULATED GLOVES.

Eye Protection: ANSI APPRVD CHEM WORK GOGGLES (SUP DATA)

Other Protective Equipment:SFTY SHOES, SOLID CO*2 HNDLG "TONGS." MAY REQ ADDNL PROT CLTHG (APRON, FSHLD, ETC WHICH ARE RESISTANT TO LOW (ING 18)

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

FIRE FIGHT PROC:FIRE EXTING AGENT PRIMARILY FOR ITS SMOTHERING EFT (REDUCTION OF O*2 CONC TO PT WHERE IMMED ATM CAN

NOT SUPPORT

COMBUST). EXPLO HAZ:(SUCH AS POTASSIUM, SODIUM, MAGNESIUM, ALUMINUM, TITA NIUM & ZIRCONIUM) OR THEIR HYDRIDES AS THESE MATLS CAN DECOMPOSE CARBON DIOXIDE. EYE PROT: W/FULL LNGTH FCSHIELD.

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

Boiling Pt:B.P. Text:-109F,-79C

Melt/Freeze Pt:M.P/F.P Text:-70F,-57C

Vapor Pres:844.7 PSIA Vapor Density:0.1144

Solubility in Water:COEFFICIENT = 0.8704

Appearance and Odor:WHITE OPAQUE SOLID; COLORLESS, ODORLESS GA S.

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

Stability Indicator/Materials to Avoid:YES

EXPLO CAN OCCUR WHEN CNTCTS MIX OF SODIUM PEROXIDE W/ALUMINUM/MAGNESIUM. REACTIVE METALS (SUCH AS ALKALI METALS (ING 2)

Stability Condition to Avoid:DECOMPOSES TO CO & O*2 WHEN HEATED ABOVE 1700C. WILL REACT W/ALKALINE MATLS TO FORM CARBONATES & BICARBONATES.

Hazardous Decomposition Products: CARBON MONOXIDE. FORMS CARBONIC ACID IN THE PRESENCE OF WATER.

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

Waste Disposal Methods:DISP MUST BE I/A/W FED, STATE & LOCAL REGS.
ALLOW GAS TO BLEED OFF AT MOD RATE/SOLID TO SUBLIME TO WELL VENT
AREA. INSULATED STOR CNTNR SHOULD BE IN AREA W/ADEQ VENT TO PVNT
ACCUM OF CO*2 VAPS A BOVE TWA. CO*2 VAP ARE APPROX 1 1/2 TIMES (ING
13)

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