CARBON DIOXIDE, REFRIGERATED LIQUID

MSDS Number

CGYHJ

National Stock Number

6830-00N043684

Product Name

CARBON DIOXIDE, REFRIGERATED LIQUID

Manufacturer

AIRGAS

Product Identification

Product ID:CARBON DIOXIDE, REFRIGERATED LIQUID MSDS Date:01/01/1995 FSC:6830 NIIN:00N043684 MSDS Number: CGYHJ

Responsible Party

AIRGAS

100 MATSONFORD RD SUITE 550

RADNOR, PA 19087-4579

US

Emergency Phone: 800-424-9300 (CHEMTREC)

Info Phone: 610-687-5233

Cage: AIRGA **Contractor**

AIRGAS INC

WAYNE, PA 19087

US

215-687-5253 Cage: 0MN39

Ingredients

TREAT SYMPTOMATICALLY & SUPPORTIVELY & GET MED

RTECS: 9999999ZZ

CONTAINMENT METH, I.E. COMPRESSED GAS CYLS, BULK

RTECS: 9999999ZZ

TIGHTLY CLOSED CONTAINER WHICH IS UNABLE TO VENT

RTECS: 9999999ZZ

AT HIGH CONCS IN RTECS: 9999999ZZ



MAY CAUSE IRRIT. LIQ/SOLID MAY CAUSE FROSTBT

RTECS: 9999999ZZ

UNLIKELY. IF LIQ/SOLID IS SWALLOWED, FROSTBT DMG OF

RTECS: 9999999ZZ

IT HAS BEEN REPORTED THAT PERS MAY TOLERATE 1.5% IN

RTECS: 9999999ZZ

BUT CALCIUM/PHOSPHORUS METABOLISM MAY BE AFFECTED

RTECS: 9999999ZZ

PROGRESSIVELY FALLING. AT 2% CONC, DEEPENED RESP

RTECS: 9999999ZZ

NOTED. IT HAS, HOWEVER, BEEN DEMONSTRATED THAT

RTECS: 9999999ZZ

LEVELS. REPRO EFTS HAVE BEEN REPORTED IN ANIMALS.

RTECS: 9999999ZZ

NO DATA AVAILABLE. FOR MORE

RTECS: 9999999ZZ

USE, GENTLY WRAP AFFECTED PART IN BLANKETS.

RTECS: 9999999ZZ

IS BEING WARMED. ALLOW CIRCULATION TO RETURN

RTECS: 9999999ZZ

OINTMENT INTO EYES W/OUT DOING SO UNDER MED ADVICE.

RTECS: 9999999ZZ

IMMED. IF TISS NOT FROZEN, WASH W/LGE AMTS OF WATER

RTECS: 9999999ZZ

LIDS. IF VICTIM CANNOT TOLERATE LIGHT, PROTECT EYES

RTECS: 9999999ZZ

CARBON DIOXIDE



CAS: 124-38-9

RTECS: FF6400000

Fraction By Weight: >99.5%

OSHA PEL5000 PPM

ACGIH TLV: 5000 PPM/30000 STEL

APPLIED MAY FREEZE & COULD DISABLE OPERATION OF

RTECS: 9999999ZZ

AVOID BREATHING VAPORS; KEEP UPWIND. CONSIDER

RTECS: 9999999ZZ

EVEN WHEN THERE IS SUFFICIENT OXYGEN

RTECS: 9999999ZZ

MAY CAUSE ADVERSE EFTS BY INTERFERING W/ITS NORM

RTECS: 9999999ZZ

CONCS RSLTS IN HYPOVENTILATION RSLTG IN RESP

RTECS: 9999999ZZ

EXPOS ARE SUFFICIENT. REPRO EFTS HAVE BEEN REPORTED

RTECS: 9999999ZZ

LIQ/SOLID MAY CAUSE FROSTBT W/REDNESS, TINGLING &

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

RTECS: 9999999ZZ

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE:INHAL:40,000 PPM (4%) IMMED
DANGEROUS TO LIFE/HLTH (NIOSH). VERY POTENT CEREBRAL VASOLIDATOR.
IN SOLID/LIQ FORM IT IS VERY VOLAT, READILY RELEASING GAS. AT CONCS
FROM 2-10% IT MAY CAUSE ACIDIC T ASTE, DYSPNEA, HDCH, VERTIGO,
NAUS, LABORED BRTHG, WEAK, DROW, MENTAL CONFUSION & INCR IN BLOOD
PRESS, (EFTS OF OVEREXP)
Explanation of Carcinogenicity:NOT RELEVANT.
Effects of Overexposure:HLTH HAZ: PULSE & RESP RATE. EXPOS TO 10% FOR
FEW MIN HAS BEEN REPORTED TO CAUSE VISUAL DISTURB, TINNITUS,
TREMORS, PROFUSE PERSPIRATION, RESTLESSNESS, PARESTHESIA, GEN

Effects of Overexposure: HLTH HAZ: PULSE & RESP RATE. EXPOS TO 10% FOR FEW MIN HAS BEEN REPORTED TO CAUSE VISUAL DISTURB, TINNITUS, TREMORS, PROFUSE PERSPIRATION, RESTLESSNESS, PARESTHESIA, GEN FEELING OF DISCOMFORT, LOSS OF CONSCIOUSNESS & COMA. CONCS OF 25-30% MAY CAUSE COMA & CONVLS W/IN 1 MIN. (ING 4) Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid

First Aid:INHAL: REMOVE TO FRESH AIR IMMED. IF BRTHG STOPPED, GIVE ARTF RESP. MAINTAIN AIRWAY & BLOOD PRESS & ADMIN OXYGEN IF AVAIL. KEEP WARM & AT REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. ADMIN OF OXYGEN SH OULD BE PERFORMED BY QUALIFIED PERS. GET MED ATTN IMMED. SKIN: GET MED ATTN. IF CASE OF FROSTBT, WARM SKIN IN WARM WATER AT



TEMP NOT GREATHER THAN 107F. IF WATER IS NOT AVAIL/IMPRACTICAL TO (ING 18)

Fire Fighting

Extinguishing Media: USE MEDIA SUITABLE FOR SURROUNDING FIRE .
Fire Fighting Procedures: WEAR NIOSH APPRVD SCBA & FULL PROT EQUIP .
MOVE CONTR FROM FIRE AREA IF POSS. STAY AWAY FROM STOR TANK ENDS.
COOL FIRE-EXPOSED CONTRS W/WATER (SUP DAT)
Unusual Fire/Explosion Hazard: PROD HAS NEGLIG FIRE HAZ WHEN EXPOSED TO
HEAT/FLAME, & ITSELF IS BROADLY USED AS FIRE EXTING AGENT. PRIMARY
HAZ OF EXPOS IS PRESENTED BY PRODUCT'S (ING 24)

Accidental Release

Spill Release Procedures: DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. KEEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD AREA AND DENY ENTRY. VENTILATE CLOSED SPACES BEFORE ENTERING.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE SUBSTANCES. DO NOT STORE IN SUBSURFACE OR CLOSED AREAS. STORE IN ACCORDANCE WITH 29 CFR 1910.101.

Other Precautions: DO NOT PERMIT PHYSICAL DAMAGE/OVERHEATING OF CONTAINERS. CONTENTS UNDER PRESSURE; CONTAINERS MAY RUPTURE VIOLENTLY & TRAVEL A CONSIDERABLE DISTANCE. CONTACT OF LIQUEFIED GASES W/WATER MAY CAUSE VIOLEN T EXPLO DUE TO RAPID TEMP FLUCTUATIONS.

Exposure Controls

Respiratory Protection: FOR IMMED DANGEROUS TO LIFE CNDTNS: NIOSH APPRVD SCBA W/FULL FACEPIECE OPERATED IN POS PRESS-DEMAND/OTHER POS PRESS MODE. NIOSH APPRVD SUPP-AIR RESP W/FULL FACEPIECE & OPERATED IN PRESS-DEMAND/OTHER P OS PRESS MODE IN COMBINATION W/AUX SCBA. Ventilation: PROVIDE GENERAL DILUTION VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves: COLD INSULATING GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment: ANSI APPRVD EMER EYEWASH & DELUGE SHOWER .

IF POSS, WEAR APPROP PROT EQUIP & CLTHG TO PVNT SKIN FREEZING.

Work Hygienic Practices: CONTACT LENSES SHOULD NOT BE WORN.

Supplemental Safety and Health

MP: VARIES W/PRESS & TAKES PLACE ONLY W/PRESS AT/GREATER THAN 75.1 PSIA. MP @ 75.1 PSIA: -70F, -57C. APPEAR/ODOR: ACID UPON CONT W/MOISTURE. CAN CAUSE BURNING SENSATION IN NOSE. FIRE FIGHT PROC: FROM SIDE UNTIL WELL AFTER FIRE IS OUT. APPLY WATER AS FAR DIST AS POSS. DO NOT USE WATER DIRECTLY ON MATL, AS WATER (ING 2)

Chemical Properties

Melt/Freeze Pt:M.P/F.P Text:SUP DAT

Vapor Pres:853 PSIA Spec Gravity:1.522

Solubility in Water: SOLUBLE

Appearance and Odor: NON-FLAMM COLORLESS GAS, W/SLIGHT ACIDIC TASTE &

SMELL. FORMS CARBONIC (SUP DAT

Stability

Stability Indicator/Materials to Avoid:YES

ACRYLALDEHYDE, BARIUM PEROXIDE, CESIUM OXIDE & DIETHYL MAGNESIUM. FOR MORE DETAILED LIST CONTACT NEHC.

Stability Condition to Avoid:STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

Hazardous Decomposition Products: TEMPERATURES ABOVE 1700C MAY CAUSE DECOMPOSITION AND THE RELEASE OF OXYGEN AND HIGHLY TOXIC CARBON MONOXIDE.

Disposal



Waste Disposal Methods:OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS SUBSTANCE. FOR ASSISTANCE, CONTACT THE DISTRICT DIRECTOR OF THE ENVIRONMENTAL PROTECTION AGENCY.

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