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AIRCO INDUSTRIAL GASES -- NITROUS OXIDE -- 6505-00-130-1940

Product ID:NITROUS OXIDE MSDS Date:09/01/1992 FSC:6505 NIIN:00-130-1940 **MSDS Number: BKBJN** === Responsible Party === Company Name: AIRCO INDUSTRIAL GASES Address:575 MOUNTAIN AVE City:MURRAY HILL State:NJ ZIP:07974-2006 Country:US Info Phone Num:800-424-9300 (CHEMTREC) Emergency Phone Num:201-464-8100 CA GE:6J576 === Contractor Identification === Company Name: BOC GROUP INC THE, BOC GASES DIV Address:575 MOUNTAIN AVE Box:City:NEW PROVIDENCE State:NJ ZIP:07974-1209 Country:US Phone:908-464-8100 CAGE:6J576

Ingred Name:NITROUS OXIDE CAS:10024-97-2 RTECS #:QX1350000 Fraction by Wt: >98% Other REC Limits:NONE SPECIFIED ACGIH TLV:50 PPM; 9192

LD50 LC50 Mixture:L

C50 (ORAL RAT) IS 1068 MG/M3 Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:HIGH CONCENTRATIONS MAY CAUSE DEEP BREATHING, DIZZINESS, NAUSEA AND EVENTUAL UNCONSCIOUSNESS DUE TO INADEQUATE OXYGEN. CAUSES ANESTHETIC EFFECTS; ACTS AS A SLIGHT NARCOTIC. DIRECT PHYSICAL CONTACT WIT H LIQUID NITROUS OXIDE WILL CAUSE FROSTBITE AND COLD BURN DAMAGE. Explanation of Carcinogenicity:NITROUS OXIDE IS NOT LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:DEEP BREATHING, DIZZINESS, NAUSEA. ACTS AS AN ANESTHETIC WITH MILD NARCOTIC EFFECTS. LAUGHTER EFFECTS SEEM TO OCCUR AFTER INCIPIENT ASPHYXIA ACCOMPANIED BY THE SUDDEN RETURN OF OXGEN AS IN AIR. CONTAC T WITH SKIN/EYES WILL CAUSE FROSTBITE. Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:EYES: REMOVE VICTIM FROM EXPOSURE AND ALLOW LIQUID TO EVAPORATE. CONSULT AN OPHTHALMOLOGIST. SKIN:FLUSH AFFECTED AREAS WITH LUKEWARM WATER. INHALATION:REMOVE VICTIM TO FRESH AIR AND GIVE ARTIFICIAL RE SUSCITATION AND SUPPLEMENTAL OXYGEN AS NEEDED. CONSULT A PHYSICIAN IN ALL CASES OF EXPOSURE.

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extingu

ishing Media:USE COPIOUS QUANTITIES OF WATER FOR FIRES WITH NITROUS OXIDE AS THE OXIDIZER. USE EXTINGUISHER BASED ON MATERIALS BURNED

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. NITROUS OXIDE MAY OXIDIZE SOME METALS AT ELEVATE

D TEMPERATURES.

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT, ELIMINATE SOURCES OF IGNITION, AND VENTILATE AREA AS REQUIRED. PIPING AND OTHER EQUIPMENT MAY NEED TO BE PURGED. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM SOURCES OF IGNITION. KEEP CONT AINER CLOSED WHEN NOT IN USE. PROTECT FROM PHYSICAL DAMAGE.

Other Precautions: VALVE PROTECTION CAPS SHOULD BE USED UNLESS CONTAINER IS SECURED. DO NOT DRAG, SLIDE, OR ROLL CYLINDERS. USE A PRESSURE REDUCING REGULATION. DO NOT HEAT CYLINDER TO INCREASE PRODUCT FLOW. DO NOT STORE ABOVE 125F.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE POSITIVE PRESSURE AI R LINE WITH MASK OR SCBA FOR EMERGENCY USE. Ventilation:LOCAL VENTILATION MAY BE NEEDED. Protective Gloves:GLOVES TO PROTECT AGAINST FROSTBITE. Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES Other Protective Equipment:SAFETY SHOWER AND EYE BATH. INDUSTRIAL TYPE WORK CLOTHING AND APRON AS REQUIRED INCLUDING SAFETY SHOES. Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. Supplemental Safety and Health K EEP CYLINDERS SECURED. AVOID USE IN CONFINED SPACES. AVOID BREATHING VAPORS.

HCC:G4 Boiling Pt:B.P. Text:-127F,-88C Melt/Freeze Pt:M.P/F.P Text:-132F,-91C Vapor Pres:736 PSIG Vapor Density:1.529 Spec Gravity:1.227@-127F Evaporation Rate & amp; Reference:GAS Solubility in Water:SLIGHTLY SOLUBLE Appearance and Odor:COLORLESS GAS; REFRIGERATED LIQUID IS WATER WHITE; SLIGHTLY SWEET ODOR Percent Volatiles by Volume:100

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Stability Indicator/Materials to Avoid:YES

- ALL FLAMMABLE MATERIALS, GREASE, OIL, HYDROCARBONS, ALKALI METALS AND REDUCING AGENTS.
- Stability Condition to Avoid:HIGH HEAT AND OPEN FLAMES; ALL FLAMMABLE MATERIALS.

Hazardous Decomposition Products:AT ELEVATED TEMPERATURES, NITROUS OXIDE DECOMPOSES INTO NITROGEN AND OXYGEN. N2O MAY EXPLODE IN SOME FIRE CASES.

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

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