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AMERIGAS INC, INDUSTRIAL GASES DIV. -- NITROUS OXIDE -- 6505-00-130-1940

Product ID:NITROUS OXIDE MSDS Date:11/25/1985 FSC:6505 NIIN:00-130-1940 MSDS Number: BPDXN === Responsible Party === Company Name: AMERIGAS INC, INDUSTRIAL GASES DIV. Address:LEIGHTON BLDG Box:965 **City:VALLEY FORGE** State:PA ZIP:19481 Country:US Info Phone Num:215-337-8900 **Emergency Phone Num:** 215-337-8900 CAGE:KO161 === Contractor Identification === Company Name: AMERIGAS INC INDUSTRIAL GASES DIV Address:LEIGHTON BLDG Box:965 City:VALLEY FORGE State:PA ZIP:19481 Country:US Phone:215-337-7000 CAGE:2W147 Company Name: AMERIGAS INC, INDUSTRIAL GASES DIV. Address:LEIGHTON BLDG Box:965 City:VALLEY FORGE State:PA ZIP:19481 Country:US Phone:215-337-8900 CAGE:KO161

Ingred Name:NO INGREDIENT FOR THIS FORMULATION\_INGREDIENT

LD50 LC50 Mixture:LC50 (ORAL RAT) IS 1068 MG/M3 Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO 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 DI

SORDERS 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.

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Flash Point:NONE

Extinguishing 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 ELEVATED 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 F

ROM SOURCES OF IGNITION. KEEP CONTAINER 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 P

EL (TLV), USE POSITIVE PRESSURE AIR 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 THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. LAUNDER CONTAMINATED CLOTHING BEFORE RE

USE.

Supplemental Safety and Health

KEEP 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:-131.5F Vapor Pres:GAS Vapor Density:1.529 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 Stability Indicator/Materials to Avoid:YES

ALL FLAMMABLE MATERIALS, ALUMINUM, BORON, HYDRIDES, SODIUM, PHOSPHINE. 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 D

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

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