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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

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

Ingred Name: NO INGREDIENT FOR THIS FORMULATION_INGREDIENT

========== Hazards Identification ============
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 WIL
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 O OXGEN AS IN AIR. CONTAC T WITH SKIN/EYES WILL CAUSE FROSTBITE. Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF
RESPIRATORY D ISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.
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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.
=========== Fire Fighting Measures =======

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.

======== Accidental Release Measures ============ 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 ================= Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM 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** PEL (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 R EUSE. Supplemental Safety and Health KEEP CYLINDERS SECURED. AVOID USE IN CONFINED SPACES. AVOID BREATHING VAPORS. ======== Physical/Chemical Properties ============ 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 & Dry 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 Docomposition Products: AT ELEVATED TEMPERATURES NITROUS

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

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

Waste

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

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