

=====**MSDS**=====
=====**Safety Information**=====
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FSC: 6505 **NIIN:** 00-130-1940 **MSDS Date:** 09/01/1992 **MSDS Num:** BKBJN

Submitter: D DG **Tech Review:** 05/27/2000 **Status CD:** C

Product ID: NITROUS OXIDE **MFN:** 01

Article: N **Kit Part:** N

Responsible Party **Cage:** 6J576

Name: AIRCO INDUSTRIAL GASES

Address: 575 MOUNTAIN AVE

City: MURRAY HILL **State:** NJ **Zip:** 07974-2006

Country: US

Info Phone Number: 800-424-9300 (CHEMTREC)

Emergency Phone Number: 201-464-8100

Preparer's Name: N/P

Proprietary Ind: N

Review Ind: N

Published: Y

Special Project CD: N

=====**Contractor**=====
=====**Summary**=====
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Cage:6J576 **Name:**BOC GROUP INC THE, BOC GASES DIV

Address:575 MOUNTAIN AVE

City:NEW PROVIDENCE **State:**NJ **Zip:**07974-1209

Country:US **Phone:**908-464-8100

=====**Item**=====
=====**Description Information**=====
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Item Manager: S9M

Item Name: NITROUS OXIDE,USP

Specification Number: NK

Type/Grade/Class: NK

Unit of Issue: EA

Quantitative Expression:

UI Container Qty: 1

Type of Container: SIZE M CYLIN.

=====**Ingredients**=====
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Cas: 10024-97-2 **Code:** M **RTECS #:** QX1350000 **Code:** M

Name: NITROUS OXIDE

% Text: >98

Environmental Wt:

Other REC Limits: NONE SPECIFIED

OSHA PEL: NOT ESTABLISHED **Code:** M **OSHA STEL:** **Code:**

ACGIH TLV: 50 PPM; 9192 **Code:** M **N/P** **Code:**

EPA Rpt Qty:

ACGIH
STEL:
DOT Rpt
Qty:

Ozone Depleting Chemical: N

===== Health
Hazards Data TOP

LD50 LC50 Mixture LC50 (ORAL RAT) IS 1068 MG/M3

Route Of Entry Inds – Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds – 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 WITH 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.

Signs And Symptoms 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. CONTACT 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 RESUSCITATION AND SUPPLEMENTAL OXYGEN AS NEEDED. CONSULT A PHYSICIAN IN ALL CASES OF EXPOSURE.

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.

Waste Disposal Methods

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

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.

===== Fire and
Explosion Hazard Information TOP

Flash Point Method: N/P

Flash Point:

Flash Point Text: NONFLAMMABLE

Autoignition Temp:

Autoignition Temp Text: N/R

Lower Limits: NOT GIVEN

Upper Limits: NOT GIVEN

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.

Measures Control [TOP](#)

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 HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

KEEP CYLINDERS SECURED. AVOID USE IN CONFINED SPACES. AVOID BREATHING VAPORS.

Physical/Chemical Properties

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HCC: G4

NRC/State LIC No: N/R

Net Prop WT For Ammo:

Boiling Point:

B.P. Text: -127F,-88C

Melt/Freeze Pt:

M.P/F.P Text: -132F,-91C

Decomp Temp:

Decomp Text: UNKNOWN

Vapor Pres: 736 PSIG

Vapor Density: 1.529

Volatile Org Content %:

Spec Gravity: 1.227@-127F

VOC Pounds/Gallon:

PH: N/R

VOC Grams/Liter:

Viscosity: N/P

Evaporation Rate & 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

Corrosion Rate: UNKNOWN

=====**Data**=====**Reactivity**=====TOP

Stability Indicator: YES

Stability Condition To Avoid: HIGH HEAT AND OPEN FLAMES; ALL FLAMMABLE MATERIALS.

Materials To Avoid: ALL FLAMMABLE MATERIALS, GREASE, OIL, HYDROCARBONS, ALKALI METALS AND REDUCING AGENTS.

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

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization NONE. WILL NOT OCCUR.

=====**Toxicological Information**=====TOP

Toxicological Information:N/P

=====**Ecological Information**=====TOP

Ecological: N/P

=====**Transport Information**=====**MSDS**=====TOP

Transport Information:N/P

=====**Regulatory Information**=====TOP

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information: N/P

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