## MSDS

Leland Limited, Inc. 2614 South Clinton Ave. South Plainfield, NJ 07080 908-668-1008 9-5 EST 908-668-1744\*\* 908-668-7716

\*\*speak a callback number then hit #911. Someone will call back in a short amount of time.

## MATERIAL SAFETY DATA SHEET

Emergency Contact Information: CHEMTREC Domestic 800-424-9300 International 703-527-3887

## Gas: Nitrous Oxide UN# 1070 (Compressed)

Dinitrogen Monoxide, Hyponitrous Acid Anhydride, N20, Molecular Mass: 44.0

Component: Nitrous Oxide (CAS#10024-97-2) 100% CERCLA Ratings (Scale 0-3): Health=U, Fire=0, Reactivity=0, Persistence=0 NFPA Ratings (Scale 0-4): Health=U, Fire=0, Reactivity=0 Physical State; Appearance: Odorless, colorless, refridgerated, liquefied gas, colorless gas or liquid with a slightly sweet odor and taste.

Types of Hazard & Exposure		ite Hazards / Symptoms	Prevention		First Aid / Fire Fighting
Fire	Not Cor enhance other su off irrita	t Combustible but hances combustion of her substances. GivesNO Open flames. NO sparks, and NO smoking.Firritating or toxic nes (or gases) in aNO open flames. NO sparks, and NO smoking.		NO	In case of fire in the surroundings: use appropriate extinguishing media.
Explosion	None		None		In case of fire: keep cylinder cool by spraying with water. Combat fire from a sheltered position.
Exposure		AVOID EXPOSURE OF (PREGNANT) WOMEN!			
Inhalation		a. Drowsiness. ciousness.	Ventilation. Local exhaust or breathing protection.		Fresh air, rest. Refer for medical attention.
Skin	ON CONTACT WITH LIQUID: FROSTBITE		Cold insulating gloves. Protective clothing.		ON FROSTBITE: rinse with plenty of water, do NOT remove clothes. Refer for medical attention;
Eyes	On contact with liquid: frostbite.		Safety goggles or eye protection in combination with breathing protection.		First rinse with plenty of warm water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	None		Do not eat, drink, or smoke while working with Nitrous Oxide.		None
Spillage Disposal	Spillage Disposal		Storage		ackaging & Labeling
Evacuate danger area! Consult an expert! Ventilation. If in liquid		Fireproof if in building. Separated from incompatible		R: S:	

state: do NOT absorb in saw-dust or other combustible absorbents.	materials. See Chemical Dangers. Cool.	UN Hazard Class: 2.2 UN Subsidiary Risks: 5.1
NEVER direct water jet on liquid. Personal protection self-contained		
breathing apparatus.		

	Boiling Point: -88.5°C		
	Melting Point : -90.8°C		
	Specific Gravity: 1.8122 G/L @ 25C		
Physical Properties	Vapor Pressure: 760 mmHg @ -88C		
	Solubility in Water: 59% @ 25 C		
	Solvent Solubility: Soluble in alcohol, ether,		
	sulfuric acid, alkaline solution, and oils.		
	Vapor Density: 1.53		
Physical Dangers	The gas is heavier than air and may accumulate in		
	low ceiling spaces causing deficiency of oxygen.		
Chemical Dangers	Reacts violently with sulphurous anhydride,		
č	amorphous boron, phosphine, ethers, aluminum,		
	hydrazine, phenyl-lithium and tungsten carbide		
	causing fire and explosion hazard. The gas is a		
	strong oxidant above 300°C and may form		
	explosive mixtures with ammonia, carbon		
	monoxide, hydrogen sulfide, oil, grease, and fuels.		
	The substance can be absorbed into the body by		
Routes of Exposure	inhalation.		
Routes of Exposure	A harmful concentration of this gas in the air will be		
Inhalation Risk	reached very quickly on loss of containment.		
Initiatation Kisk	reached very quickly on loss of containment.		
Effects of Short Term Exposure	This liquid may cause frostbite. The substance may		
Effects of Short Term Exposure	cause effects on the central nervous system,		
	resulting in lowering of consciousness.		
Effects of long term exposure	The substance may have effects on the bone marrow		
	and peripheral nervous system. May cause		
	reproductive toxicity in humans.		
Applicability	Leland Produces and ships many gas filled cylinders		
паррисаонну	and the content (type of gas) is identified on the		
	cylinder label, cylinder box, or shipping carton.		
	ORM-D is a shipping label relating to a gas type		
	which has been re-named as Consumer Commodity		
	as allowed per 49 CFR 173.306.		