

 <p>SHARJAH OXYGEN COMPANY SOC www.sharjahoxygen.com</p>	<h1>SAFETY DATA SHEET</h1>	SDS NO.	PG - 005
		DATE OF ISSUE	22/02/2009
		DATE LAST UPDATED	04/08/2020
	<h2>NITROGEN, REFRIGERATED LIQUID</h2>	REV. NO.	02
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1 - PRODUCT AND COMPANY IDENTIFICATION	
1.1 PRODUCT IDENTIFIER :	
1.1.1 PRODUCT NAME	Nitrogen, Refrigerated Liquid
1.1.2 SYNONYMS	Liquid Nitrogen, Liquid Nitrogen NF, Liquid Nitrogen FG, LIN, Cryogenic Liquid Nitrogen
1.1.3 CAS NUMBER	7727-37-9
1.1.4 CHEMICAL FORMULA	N ₂
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST :	
1.2.1 RELEVANT IDENTIFIED USES	Synthetic/Analytical chemistry.
1.3 DETAILS OF THE SUPPLIER :	
1.3.1 COMPANY IDENTIFICATION	Sharjah Oxygen Company Industrial Area 1, Sharjah United Arab Emirates www.sharjahoxygen.com
1.4 EMERGENCY TELEPHONE NUMBER :	
1.4.1 EMERGENCY NUMBER(S)	PHONE +971-6-5336481
2 - HAZARD(S) IDENTIFICATION	
2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE :	
GASES UNDER PRESSURE - Refrigerated liquefied gas	
2.2 LABEL ELEMENTS :	
2.2.1 LABELING PICTOGRAMS	

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2.2.2 SIGNAL WORD	Warning
2.2.3 HAZARD STATEMENT	Contains refrigerated gas; may cause cryogenic burns or injury. May cause frostbite.
2.2.4 PRECAUTIONARY STATEMENT	Read and follow all Safety Data Sheet (SDS) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventive device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position. Do not change or force fit connections. Avoid spills. Do not walk or roll equipment over spills.
2.3 OTHER HAZARDS:	Liquid can cause burns similar to frostbite.
3 – COMPOSITION/INFORMATION ON INGREDIENTS	
3.1 SUBSTANCES :	
3.1.1 CHEMICAL IDENTITY OF THE SUBSTANCE	Substance
3.1.2 COMMON NAME(S)/ SYNONYM(S)	Liquid Nitrogen, Liquid Nitrogen NF, Liquid Nitrogen FG, LIN, Cryogenic Liquid Nitrogen
3.1.3 CAS NO.	7727-37-9
3.1.4 IMPURITIES AND STABILIZING ADDITIVES WHICH ARE THEMSELVES CLASSIFIED AND WHICH CONTRIBUTE TO THE CLASSIFICATION OF THE SUBSTANCE	There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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3.2 MIXTURES :


NITROGEN, REFRIGERATED LIQUID: 100%

4 – FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES :


<h4>4.1.1 INHALATION</h4>	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</p>
<h4>4.1.2 SKIN CONTACT</h4>	<p>Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
<h4>4.1.3 EYE CONTACT</h4>	<p>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.</p>
<h4>4.1.4 INGESTION</h4>	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Ingestion of liquid can</p>

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	cause burns similar to frostbite. If frostbite occurs, get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. As this product rapidly becomes a gas when released, refer to the inhalation section.
4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED :	
4.2.1 ACUTE SYMPTOMS AND EFFECTS	Extremely cold material. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED :	
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
5 – FIRE FIGHTING MEASURES	
5.1 EXTINGUISHING MEDIA :	
5.1.1 SUITABLE EXTINGUISHING MEDIA	Use an extinguishing agent suitable for the surrounding fire.
5.1.2 UNSUITABLE EXTINGUISHING MEDIA	None known.
5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL :	
5.2.1 DURING FIRE	Contains gas under pressure. Contains refrigerated gas.
5.2.2 DURING EXPLOSION	In a fire or if heated, a pressure increase will occur and the container may burst or explode.
5.3 ADVICE FOR FIRE FIGHTERS :	
5.3.1 FIRE FIGHTING INSTRUCTIONS	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken

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	involving any personal risk or without suitable training. Contact supplier immediately for specialist advice.
5.3.2 PROTECTION DURING FIRE FIGHTING	Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
5.3.3 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.
6 – ACCIDENTAL RELEASE MEASURES	
6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES :	
6.1.1 GENERAL MEASURES	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
6.1.2 PROTECTIVE EQUIPMENT FOR NON-EMERGENCY PERSONNEL	Do not touch or walk through spilled material. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
6.1.3 PROTECTIVE EQUIPMENT FOR EMERGENCY RESPONDERS	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
6.2 ENVIRONMENTAL PRECAUTIONS :	
Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	

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6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP :

Immediately contact emergency personnel. Stop leak if without risk.

7 – HANDLING AND STORAGE

7.1 PRECAUTION FOR SAFE HANDLING :

Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Contains refrigerated gas. Do not get in eyes or on skin or clothing. Avoid breathing gas. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement. Never allow any unprotected part of the body to touch uninsulated pipes or vessels that contain cryogenic liquids. Prevent entrapment of liquid in closed systems or piping without pressure relief devices. Some materials may become brittle at low temperatures and will easily fracture.

7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES :

7.2.1 SAFE REQUIREMENTS STORAGE

Store in accordance with local regulations. Store in a segregated and approved area. Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

7.2.2 KEEP AWAY FROM

Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).


8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1.1 CONTROL PARAMETERS :

8.1.1 OCCUPATIONAL EXPOSURE :


Oxygen Depletion [Asphyxiant]

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8.2 EXPOSURE CONTROLS :	
8.2.1 APPROPRIATE ENGINEERING CONTROLS	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
8.2.2 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:	
8.2.2.1 RESPIRATORY PROTECTION	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
8.2.2.2 HAND PROTECTION	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. If contact with the liquid is possible, insulated gloves suitable for low temperatures should be worn. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
8.2.2.3 EYE PROTECTION	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields.
8.2.2.4 SKIN PROTECTION	Personal protective equipment for the body should be selected based on the task being

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	performed and the risks involved and should be approved by a specialist before handling this product.
8.3 ENVIRONMENTAL CONTROLS	EXPOSURE Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
9 – PHYSICAL AND CHEMICAL PROPERTIES	
9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :	
9.1.1 PHYSICAL STATE	Liquid. [Cryogenic liquid]
9.1.2 MOLECULAR MASS	28.01 g/mole
9.1.3 COLOR	Colorless.
9.1.4 ODOR	Odorless.
9.1.5 MELTING POINT	-210°C (-346°F)
9.1.6 FREEZING POINT	-210°C (-346°F)
9.1.7 BOILING POINT	-195.8 °C
9.1.8 CRITICAL TEMPERATURE	-146.95°C (-232.5°F)
9.1.9 RELATIVE VAPOR DENSITY	0.967 (Air = 1) Liquid Density@BP: 50.46 lb/ft ³ (808.3 kg/m ³)
9.1.10 RELATIVE GAS DENSITY	0.072 lb/ft ³
9.1.11 SOLUBILITY	0.023 g/l (in water)
10 – STABILITY AND REACTIVITY	
10.1 REACTIVITY	No specific test data related to reactivity available for this product or its ingredients.

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10.2 CHEMICAL STABILITY	The product is stable.
10.3 POSSIBILITY OF HAZARDOUS REACTION	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 CONDITIONS TO AVOID	No specific data.
10.5 INCOMPATIBLE MATERIALS	No specific data.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
11 – TOXICOLOGICAL INFORMATION	
11.1 INFORMATION ON TOXICOLOGICAL EFFECTS :	
11.1.1 ACUTE TOXICITY	Not available.
11.1.2 CORROSION/ IRRITATION	Not available.
11.1.3 RESPIRATORY/SKIN SENSITIZATION	Not available.
11.1.4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	Not available.
11.1.5 MUTAGENICITY	Not available.
11.1.6 CARCINOGENICITY	Not available.
11.1.7 REPRODUCTIVE TOXICITY	Not available.
12 – ECOLOGICAL INFORMATION	
12.1 TOXICITY	Not Available
12.2 PERSISTENCE AND DEGRADABILITY	Not Available
12.3 BIO ACCUMULATIVE POTENTIAL	LogPow: 0.67 BCF: - Potential: low

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12.4 MOBILITY IN SOIL	Not Available
13 – DISPOSAL CONSIDERATIONS	
13.1 WASTE TREATMENT METHODS :	
13.1.1 PROVISION RELATING TO WASTE	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
13.1.2 DISPOSAL METHODS	Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
13.1.3 PACKAGING/ CONTAINER	Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.
14 – TRANSPORT INFORMATION	
14.1 ROAD (ADR) :	
14.1.1 UN NUMBER	UN1977
14.1.2 UN PROPER SHIPPING NAME	NITROGEN, REFRIGERATED LIQUID
14.1.3 TRANSPORT HAZARD CLASS (ES) :	2.2
14.1.3.1 HAZARD IDENTIFICATION NUMBER	22

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14.1.4 SPECIAL PRECAUTIONS FOR USER :	
14.1.4.1 LIMITED QUANTITIES	<p>Limited quantity Yes.</p> <p>Packaging instruction Passenger aircraft Quantity limitation: 75 kg</p> <p>Cargo aircraft Quantity limitation: 150 kg</p>
14.2 SEA (IMDG/IMSBC) :	
14.2.1 UN NUMBER	UN1977
14.2.2 UN PROPER SHIPPING NAME	NITROGEN, REFRIGERATED LIQUID
14.2.3 TRANSPORT HAZARD CLASS (ES) :	2.2
14.2.3.1 HAZARD IDENTIFICATION NUMBER	22
14.4 AIR (ICAO-TI/IATA-DGR) :	
14.4.1 UN NUMBER	UN1977
14.4.2 UN PROPER SHIPPING NAME	NITROGEN, REFRIGERATED LIQUID
14.4.3 TRANSPORT HAZARD CLASS (ES) :	2.2
14.4.3.1 CLASS	2.2
14.4.4 SPECIAL PRECAUTIONS FOR USER :	
14.4.4.1 PASSENGER AND CARGO TRANSPORT, LIMITED QUANTITIES, MAXIMUM QUANTITY PER PACKAGING	<p>Passenger and Cargo Aircraft Quantity limitation: 50 kg</p> <p>Cargo Aircraft Only Quantity limitation: 500 kg</p>

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15 – REGULATORY INFORMATION	
15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial exemption: This material is listed or exempted. United States inventory (TSCA 8b): This material is listed or exempted.
16 – OTHER INFORMATION :	
Canada Label requirements : Class A: Compressed gas.	

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