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MATERIAL SAFETY DATA SHEET

I. PRODUCT & COMPNAY IDENTIFICATION

Trade Name: NC+	Synonyms: Metal Cutting Gas
Chemical Name: Propane or Liquefied Petroleum Gas	Chemical Family: Aliphatic light hydrocarbons
Formula: C3H8-C4H10	HAZCHEM Code: 2WE
Company: National Gas Co SAOG P.o.Box-95, Al	Phone: +96824446073
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II. HAZARD AND INGREDIENTS

Material	Propane with Petroleum Distillates
CAS	8052-41-3
OSHA-PEL TWA	1000

III. PHYSICAL DATA

Boiling point: -2° C to -42 ° C	Freezing Point: < -135 ° C
SG: 0.50-0.58	SVP at 21deg C 100 PSIG
Vapor density: 1.52 to 2.01	Solubility in water by weight 0.01
Appearance: Colorless	Odor: Odorless

IV. HEALTH HAZARD DATA

Recommended exposure limit	1000 ppm
Target Organs	Respiratory system, central nervous system
Effect of Exposure	May cause light-headedness, dizziness, drowsiness, disorientation, excitation.
Skin contact	Liquefied Gas may cause freeze burns
Ingestion	Not a likely route. May cause freeze burns to .mucous membrane
Eye Contact	Vapors may cause irritation. Liquefied Gas may cause freeze burns
Effects of Chronic exposure	Not known

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V. FIRST AID MEASURES

Emergency and first air procedures	
Inhalation	Remove to fresh air. If breathing ceases, administer artificial respiration.
	Seek medical attention.





594Skin contact	Flush skin with water. In case of irritation or freeze burns, get medical attention.
Ingestion	Get immediate medical attention
Eye contact	Immediately flush with large amounts of water. For freeze burns, seek immediate medical attention

VI. HANDLING & STORAGE

Handling & Storage procedures:	
Storage:	 Cylinder should be stored upright and firmly secured to prevent falling or being knocked over. a) Post "No Smoking or Open Flames" signs in the storage areas. b) There should be no source of ignition. c) All electrical equipment should be explosion proof I the storage area.
Handling:	Protect cylinders from physical damage; do not drag, roll, slide or drop. Use a suitable hand truck for cylinder movement.

VII. FIRE AND EXPLOSION HAZARD DATA

Flash point: <	: -73°C	Auto ignition temperature > 460°C
Flammable limits in	n Air, % by volume	Hazard Class 3
Lower: 1.55	Upper: 9.60	ID No. UN 1268
HS Code: 2710		
Extinguishing Med	ia:	Dry chemical, Foam or Carbon dioxide

VIII. FIRE FIGHTING PROCEDURE

Special Fire Fighting Procedures:

-Evacuate area of all unnecessary personnel.

-Do not attempt to extinguish the fire until source is shut off.

-Cut off fuel if possible or allow fire to burn out under controlled conditions

-Extinguish small fires with dry chemical extinguishers.

-Keep the container cooled with water spray till fire is put off, to avoid build-up of pressure.

Fire and Explosion Hazards:

-Highly flammable vapors being heavier than air, may accumulate in low areas and/or spread along ground away from handling site.





IX. SPILL OR LEAK PROCEDURES

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X. REACTIVE DATA

Stability:	Stable
Conditions to avoid:	Not established
Incompatibility (Materials to avoid)	Strong oxidizers, Chlorine dioxide
Hazardous Decomposition Products:	Carbon oxides formed when burned
Hazardous Polymerization	Will not occur
Conditions to avoid	Not established

XI. TOXICITY INFORMATION

Other Studies Relevant To Material:	Non-toxic
Irritancy of Material:	None
Reproductive Effects:	None

XII. ECOLOGICAL INFORMATION

ECOTOXICITY	No adverse ecological effects are expected. NC+ does not contain any class I or Class II ozone
	depleting chemicals.

XIII. PERSONNEL PROTECTION INFORMATION

Ventilation	Use adequate ventilation to maintain exposure below REL.
Protective Clothing	If exposure to liquid is possible, clothing to prevent skin freezing.
Eye Protective Goggles	If reasonable possibility of eye contact exists
Other Protective Equipment/Measures	Remove clothing if becomes wet

XIV. DISPOSAL CONSIDERATIONS

Waste Disposal Method:	 Do not attempt to dispose of residual or unused quantities. Return cylinders to supplier.
	 Residual product within process system may be burned at a controlled rate, if a suitable burning unit (flair stack) is available on site. This shall be done in accordance with local rules and regulations





XV. TRANSPORT INFORMATION

DOT/IMO Shipping Name	NC+ Metal Cutting Gas
Hazard Class	3
Product RQ	None
Shipping Label(s)	Flammable Gas
PLA Card (When Required)	Flammable Gas
Special Shipping Information	Cylinders should be transported in secure upright position, in a well ventilated truck
The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards and should be discouraged.	

XVI. OTHER INFORMATION

Ensure all national and local regulations are observed and ensure operators understand the flammability hazard.

Contact with liquid mat cause burns/frost bite.

The hazard of asphyxiation is often overlooked and must be stressed during operator training and use of training on breathing apparatus use must be imparted.

XVII. EXCLUSION LIABILITY

This MSDS is for information purpose only and subject to change without notice. Details given in this document are believed to be correct at the time of issue. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

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