2.1 : Flammable gases

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : NC+
SDS Nr : SDS_NC+
Chemical Name : Mixture of Liquefied Hydrocarbon Gases
Synonyms : Metal Cutting Gas
Chemical Family : Light Hydrocarbon
Chemical Formula : C_3H_8, C_4H_{10} and Stoddart Solvent

1.2. Details of the supplier of the safety data sheet

Company identification : BUZWAIR INDUSTRIAL GASES FACTORIES
PO Box 319
Doha Qatar

1.3. Emergency telephone number

Emergency telephone number : +974 4451 6976

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

Target Organs : Respiratory system, central nervous system

Effects of Over Exposure

Inhalation : 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.

SECTION 3. Composition/information on ingredients

3.1. Substance / 3.2. Mixture

Mixture.

Substance name		CAS No
Petroleum Distillates	:	8052-41-3
Liquefied Petroleum Gases	:	68476-49-3

SECTION 4. First aid measures

4.1. Description of first aid measures

- Inhalation : Remove to fresh air. If breathing ceases, administer artificial respiration. Seek medical attention.

- Skin / Eye contact : Flush skin water. In case of irritation or freeze burns, seek medical attention.

: Immediately flush with large amounts of water.

- Ingestion : Get immediate medical attention.

SECTION 5. Firefighting measures

5.1. Extinguishing media

: Dry chemical, foam or Carbon Dioxide

5.2. Special hazards arising from the substance or mixture

Fire and Explosion Hazards : Highly flammable vapours being heavier than Air, may accumulate in low areas and/or spread along ground away from handling site.

5.3. Advice for fire-fighters

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 out, to avoid build-up of pressure.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

: Shut off source, if safe to do so.
Evacuate area of all unnecessary personnel.
Wear protective equipment.
Protect from ignition.
Ventilate area.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

: Protect cylinders from physical damage; do not drag, roll, slide or drop.
Use suitable hand truck for cylinder movement.

7.2. Conditions for safe storage, including any incompatibilities

: Cylinder should be stored upright and firmly secured to prevent falling or being knocked over.
Post " No Smoking or Open Flames" signs in the storage areas.
Eliminate all sources of ignition.
All electrical equipment should be explosion proof in the storage area.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Recommended Exposure Limit

: 1000ppm

8.2. Exposure controls

Personal protection

- **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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Molar mass [g/mol]	: 44 to 58
Flash point [°C]	: < -73
Auto ignition temperature	: > 460
Flammability range [vol% in air]	
Lower	: 1.55
Upper	: 9.60

SECTION 10. Stability and reactivity

10.1. Chemical stability

: Stable

10.2. Conditions to avoid

: Not established

10.3. Incompatible materials

: Strong oxidizers, Chlorine Dioxide

10.4. Hazardous decomposition products

: Carbon oxides formed when burned.
:

10.5. Hazardous Polymerization

: Will not occur.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Other studies relevant to material : Non-toxic
Irritancy of Material : None
Reproductive Effects : None
Synergistic Materials : None
Sensitization to Material : None

SECTION 12. Ecological information

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

SECTION 13. Disposal considerations

13.1. 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 (flare stack) is available on site. This shall be done in accordance with local rules and regulations.

SECTION 14. Toxicological information

UN No. : 1075
Hazard Class : 2
HS Code : 2710.19
DOT/IMO Shipping Name : Liquefied Petroleum Gas
Product RQ : None
Special Shipping information : Cylinders should be transported in secure upright position, in a well ventilated truck.

SECTION 15. Regulatory information

Shipping Label(s) : Flammable Gas
Pla Card (When Required) : Flammable Gas

SECTION 16. Other information

Further information : The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards and should be discouraged.

DISCLAIMER OF LIABILITY : Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.
Details given in this document are believed to be correct at the time of going to press. 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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