

NON-FLAMMABLE GAS MIXTURE Nitrogen Trifluoride: 0.001-0.005% in Nitrogen Balance

50101

Label 2.2 : Non flammable, non toxic gas.

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : NON-FLAMMABLE GAS MIXTURE Nitrogen Trifluoride: 0.001-0.005% in Nitrogen Balance.

MSDS No : 50101

Company identification : Air Liquide - Calgaz (International)
Unit 12 Waterloo Park Industrial Estate
Upper Brook Street, Stockport
Cheshire, SK1 3BP United Kingdom
Office Tel: +44 (0)870 901 5082
Website: www.calgaz.com

2 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation : Preparation.

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Nitrogen trifluoride	: between 10 and 50 ppm	007783-54-2	232-007-1	-----	O; R8
Nitrogen	: Balance	007727-37-9	231-783-9	-----	

3 HAZARDS IDENTIFICATION

Hazards identification : In high concentrations may cause asphyxiation.
Compressed gas.

4 FIRST AID MEASURES

First aid measures

- Inhalation : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
- Ingestion : Ingestion is not considered a potential route of exposure.

5 FIRE-FIGHTING MEASURES

- Flammable class** : Non flammable.
- Specific hazards** : Exposure to fire may cause containers to rupture/explode.
- Extinguishing media**
- Suitable extinguishing media : All known extinguishants can be used.
- Specific methods** : If possible, stop flow of product.
Move away from the container and cool with water from a protected position.
- Special protective equipment for fire fighters** : In confined space use self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Evacuate area.
Ensure adequate air ventilation.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

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Environmental precautions : Try to stop release.
Clean up methods : Ventilate area.

7 HANDLING AND STORAGE

Storage : Keep container below 50°C in a well ventilated place.
Handling : Open valve slowly to avoid pressure shock.
Suck back of water into the container must be prevented.
Do not allow backfeed into the container.
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
Refer to supplier's container handling instructions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection : Ensure adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Critical temperature [°C] : -147
Relative density, gas (air=1) : Lighter or similar to air.

10 STABILITY AND REACTIVITY

Stability and reactivity : Stable under normal conditions.

11 TOXICOLOGICAL INFORMATION

Toxicity information : No known toxicological effects from this product.

12 ECOLOGICAL INFORMATION

Ecological effects information : Not hazardous.
No known ecological damage caused by this product.
Effect on ozone layer : None.

13 DISPOSAL CONSIDERATIONS

General : Do not discharge into any place where its accumulation could be dangerous.
Contact supplier if guidance is required.
Must not be discharged to atmosphere.

14 TRANSPORT INFORMATION

UN No. : 1956
H.I. nr : 20
ADR/RID
- ADR Class : 2
- ADR/RID Classification code : 1 A
- Labelling ADR : Label 2.2 : Non flammable, non toxic gas.
Other transport information : Avoid transport on vehicles where the load space is not separated from the driver's compartment.
Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
Before transporting product containers :
- Ensure that containers are firmly secured.

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- Ensure cylinder valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.
- Ensure there is adequate ventilation.
- Compliance with applicable regulations.

15 REGULATORY INFORMATION

EC Labelling : Not classified as dangerous preparation.

- **Symbol(s)** : None.

- **R Phrase(s)** : None.

- **S Phrase(s)** : None.

16 OTHER INFORMATION

Asphyxiant in high concentrations.

Keep container in a well-ventilated place.

Do not breathe the gas.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

Receptacle under pressure.

Ensure all national/local regulations are observed.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

Details given in this document are believed to be correct at the time of going to press.

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. 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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