

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name: TRACER GAS
Product code: TRACE
Synonyms: 95% NITROGEN 5% HYDROGEN
TRACE-A-GAS

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Industrial and Professional use. Perform risk assessment prior to use.

1.3. Details of the supplier of the safety data sheet

Company name: National Refrigerants Ltd
4 Watling Close
Sketchley Meadows Business Park
Hinckley
Leicestershire
LE10 3EZ
United Kingdom
Tel: 01455 630790
Fax: 01455 630791
Email: sds@nationalref.com

1.4. Emergency telephone number

Emergency tel: Carechem24 +44 (0)1865 407333

Section 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification under CLP: Press. Gas: H280; -: EUH044

Most important adverse effects: Contains gas under pressure; may explode if heated. Risk of explosion if heated under confinement.

2.2. Label elements**Label elements:**

Hazard statements: H280: Contains gas under pressure; may explode if heated.
EUH044: Risk of explosion if heated under confinement.

Hazard pictograms: GHS04: Gas cylinder



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Signal words: Warning

Precautionary statements: P410+P403: Protect from sunlight. Store in a well-ventilated place.

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Non-classified ingredients:

NITROGEN COMPRESSED

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-783-9	7727-37-9	-	Press. Gas: H280	95.000%

HYDROGEN

215-605-7	1333-74-0	-	Flam. Gas 1: H220; Press. Gas: H280	5.000%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Adverse effects not expected from this product.

Eye contact: Adverse effects not expected from this product.

Ingestion: Ingestion is unlikely due to its physical properties and is not expected to be dangerous.

Since this product is a gas, refer to the inhalation section.

Inhalation: In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: Not applicable.

Eye contact: Not applicable.

Ingestion: Ingestion is unlikely due to the physical properties of the product. As product is a gas refer to inhalation section.

Inhalation: Gas reduces oxygen available for breathing. Causes asphyxiation in high concentrations. The victim will not realize that he/she is suffocating.

Delayed / immediate effects: Not applicable.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: In case of shortness of breath, give oxygen.

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Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: The product is not flammable. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Pressure build up. Fire or intense heat may cause violent rupture of packages.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate the area immediately. Ventilate the area, especially low or enclosed places where heavy vapours might collect. Refer to section 8 of SDS for personal protection details. Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

6.2. Environmental precautions

Environmental precautions: Stop release if safe to do so. Prevent from entering sewers, basements and work pits, or any place where the accumulation can be dangerous.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Ventilate the area, especially low or enclosed places where heavy vapours might collect.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Ask for General Cylinder Safety information.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Store at temperatures not exceeding 45 ° C.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

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Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required. Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Wear working gloves while handling containers. Guideline: EN 388 Protective gloves against mechanical risks

Eye protection: Wear eye protection to EN 166 when using gases. Guideline: EN 166 Personal Eye Protection.

Skin protection: Protective clothing. Wear working gloves while handling containers. Guideline: EN 388 Protective gloves against mechanical risks

Environmental: For waste disposal see Section 13.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Gas

Colour: Colourless

Odour: Odourless

Evaporation rate: Not applicable.

Oxidising: Not applicable.

Solubility in water: No data available.

Viscosity: Not applicable.

Boiling point/range°C: Not applicable.

Melting point/range°C: Not applicable.

Flammability limits %: lower: Not applicable.

upper: Not applicable.

Flash point°C: Not applicable.

Part.coeff. n-octanol/water: Not applicable.

Autoflammability°C: Not applicable.

Vapour pressure: No data available.

Relative density: No data available.

pH: Not applicable.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

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10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Not applicable.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: Not applicable.

Eye contact: Not applicable.

Ingestion: Ingestion is unlikely due to the physical properties of the product. As product is a gas refer to inhalation section.

Inhalation: Gas reduces oxygen available for breathing. Causes asphyxiation in high concentrations. The victim will not realize that he/she is suffocating.

Delayed / immediate effects: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Not applicable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Not applicable.

12.4. Mobility in soil

Mobility: Not applicable.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

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12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Product is an atmospheric gas and will disperse in the atmosphere.

Recovery operations: Consult manufacturer or supplier for information regarding recovery and recycling of the product.

Disposal of packaging: Return to supplier.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1956

14.2. UN proper shipping name

Shipping name: COMPRESSED GAS, N.O.S.
(NITROGEN COMPRESSED; HYDROGEN)

14.3. Transport hazard class(es)

Transport class: 2

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work. Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH044: Risk of explosion if heated under confinement.

H220: Extremely flammable gas.

H280: Contains gas under pressure; may explode if heated.

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