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Version: 2.1

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

Trade name : NITRO TRACE

Colour Index/ Chemical name : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Industrial and professional leak detection.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Butts of Bawtry

Station Yard Bawtry Doncaster DN10 6QD

T +44 (0)1302 710868 info@butts of bawtry.com

1.4. Emergency telephone number

Emergency number : +44 (0)1302 710868

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Gases under pressure - Compressed gas - Warning - (CLP : Press. Gas) - H280

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]



Hazard statements : H280 - Contains gas under pressure; may explode if heated

2.3. Other hazards

Asphyxiant in high concentrations.

SECTION 3: Composition/information on ingredients**3.1. Substance/ 3.2 Mixture**

Substance	%age	CAS No.	EINICS No.	Registration No.	Classification
Hydrogen	5%	1333-74-0	215-605-7	*1	Press. gas H280 Flam. Gas H220
Nitrogen	95%	7727-37-9	231-783-9	*1	Press. gas H280

Contains no other components or impurities which will influence the classification of the product.

* 1: Listed in Annex IV V REACH, exempted from registration.

* 2: Registration deadline not expired.

* 3: Registration not required: Substance manufactured or imported < 11/y

Full text of R-phrases see chapter 16. Full text of H-statements see chapter 16.

SECTION 4: First aid measures

4.1 Description of First Aid Measures

First-aid measures general:	First Aid, decontamination, treatment of symptoms. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after inhalation:	When symptoms occur: go into open air and ventilate suspected area. If unconscious, place in the recovery position and seek medical advice.
First-aid measures after skin contact:	Adverse effects not expected from this product.
First-aid measures after eye contact:	Adverse effects not expected from this product
First-aid measures after ingestion:	Ingestion is not considered a potential route of exposure..

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

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/ consciousness. Victim may not be aware of asphyxiation. Refer to section 11

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

None

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media: All know extinguishants can be used

5.2. Special hazards arising from the substance or mixture

Specific hazards : Exposure to fire may cause containers to rupture/explode.

5.3. Advice for firefighters

Specific methods Coordinate fire measure to the surrounding fire. Cool endangered containers with water spray jet from a protected position. Do not empty contaminated fire water into drains. If possible, stop flow of product.

Protection during firefighting: In confined space use appropriate respiratory protection.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area.
Try to stop release.
Ensure adequate air ventilation.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
Monitor concentration of released product.

6.2. Environmental precautions

Try to stop release.

6.3. Methods and material for containment and cleaning up

Ventillate the area

6.4. Reference to other sections

See also section 8 & 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Safe use of the product**

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

Only experienced and properly instructed persons should handle gases under pressure. The product must be handled in accordance with good industrial hygiene and safety procedures.

Do not smoke while handling product.

Ensure the complete gas system was (or is regularly) checked for leaks before use

Safe handling of the gas receptacle

Refer to supplier's container handling instructions.

Do not allow backfeed into the container.

Protect cylinders from physical damage; do not drag, roll, slide or drop.

When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.

Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.

If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.

Never attempt to repair or modify container valves or safety relief devices.

Damaged valves should be reported immediately to the supplier.

Keep container valve outlets clean and free from contaminants particularly oil and water.

Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.

Close container valve after each use and when empty, even if still connected to equipment.

Never attempt to transfer gases from one cylinder/container to another.

Never use direct flame or electrical heating devices to raise the pressure of a container.

Do not remove or deface or modify labels provided by the supplier for the identification of the cylinder contents.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from combustible materials. Protect from freezing.

Keep container below 50°C in a well ventilated place.

Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion.

Containers should be stored in the vertical position and properly secured to prevent toppling. Stored containers should be periodically checked for general condition and leakage.

Container valve guards or caps should be in place.

Store containers in location free from fire risk and away from sources of heat and ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

No additional information available

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8.2. Exposure controls**Appropriate engineering controls:** V

Oxygen detectors should be used when asphyxiating gases may be released. Provide adequate general and local exhaust ventilation.

Ensure exposure is below occupational exposure limits (where available), Systems under pressure should be regularly checked for leakages. Consider work permit system e.g. for maintenance activities

Personal protective equipment: Gloves. Safety glasses. Protective clothing for general cleanliness.



Hand protection:

Wear suitable gloves

Eye protection:

Wear safety glasses with side shields

Skin and body protection

Wear suitable protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	: Gas
Colour	: Colourless.
Odour	: Odourless.
Odour threshold	: Subjective, inadequate to warn for overexposure
pH	: Not applicable for gas-mixtures
Relative evaporation rate (butylacetate=1)	: Not applicable for gas-mixtures
Melting point	: Not applicable for gas-mixtures
Boiling point	: Not applicable for gas-mixtures
Flash point	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Lighter or similar to air
Solubility in water	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Not applicable.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

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Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

None. For additional information on compatibility refer to ISO 11114

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced).

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity : Not classified

GLO-LEAK UV-FLUORESCENT LEAK TEST FLUID TYPE GL1234

LD50 Oral Rat > 2000 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information**12.1. Toxicity** No data available**12.2 Persistence and degradability** No data available.**12.3 Bioaccumulative potential** No data available.**12.4 Mobility in soil** No data available.**12.5 Results of PBT assessment** No data available.**12.6. Other adverse effects**

Effect on ozone layer : None.

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Ensure that the emission levels from local regulations or operating permits are not exceeded.

Do not discharge into any place where its accumulation could be dangerous.

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Refer to the code of practice of EIGA (Dec. 30110 "Disposal of Gases, downloadable at <http://www.eiga.org>) for more guidance on suitable disposal methods
Contact supplier if guidance is required.

SECTION 14: Transport information

: 2.2 : Non flammable, non toxic gas.

Land transport (ADR/RID)

H.I. nr: 20
UN proper shipping name: COMPRESSED GAS, N.O.S. (Hydrogen, Nitrogen)
Transport hazard class(es) : 2
Classification code: : 1 A
Packing Instruction(s) : P200
Tunnel Restriction: E Passage forbidden through tunnels of category E.

Sea transport (IMDG)

Proper shipping name: COMPRESSED GAS, N.O.S. (Hydrogen, Nitrogen)
Class : 2.2
Emergency Schedule (EmS) - Fire : F-C
Emergency Schedule (EmS) - Spillage : S-V
Packing Instruction(s) : P200

Air transport (ICAO-TI / IATA-DGR)

Proper shipping name (IATA) : COMPRESSED GAS, N.O.S. (Hydrogen, Nitrogen)
Class : 2.2
Passenger and Cargo Aircraft : Allowed.
Packing instruction - Passenger: 200
and Cargo Aircraft
Cargo Aircraft only : Allowed.
Packing instruction - Cargo Aircraft : 200

Special precautions for user

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 there is adequate ventilation.
- Ensure that containers are firmly secured,
- 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.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Seveso directive 96/82/EC: Not covered

15.1.2. National regulations Ensure all national/local regulations are observed.

15.2. Chemical safety assessment

A CSA does not need to be carried out for this product.

SECTION 16: Other information

Indication of changes	: Revised safety data sheet in accordance with commission regulation (EU) No 453/2010
Training advice	: Receptacle under pressure.
List of full text of R-phrases in section 3	: R12 : Extremely flammable. 3.
List of full text of H-statements in section 3.	: H220 - Extremely flammable gas : H280 - Contains gas under pressure; may explode if heated.
Further information	: Classification in accordance with calculation methods of regulation (EC) 1272/2008 CLP /(EC) 1999/45 DPD.

This Safety Data Sheet has been established in accordance with the applicable European Union legislation.

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.

Version 2.1 amended under Regulation (EC) No. 453/2010

Data sources : This information is based on the present data (producers, chemical safety cards, <http://echa.europa.eu/>, <http://ecb.jrc.ec.europa.eu/esis/>, ...).

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.