

## HARP<sup>®</sup> TRACER (5.0% Hydrogen in Nitrogen)

Revision: 1  
Revision date: December 2020

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name	HARP TRACER (5.0% Hydrogen in Nitrogen)
REACH registration number	Not available
CAS No.	Not available
EC No.	Not available

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

Product use	Industrial and professional. Leak testing, pressure testing.
Description	Gas

#### 1.3 Details of the supplier of the safety data sheet

Company	Harp International Limited
Address	Gellihirion Industrial Estate Pontypridd Rhondda Cynon Taff CF37 5SX UK
Web	<a href="http://www.harpintl.com">www.harpintl.com</a>
Telephone	+44 (0) 1443 842 255
Fax	+44 (0) 1443 841 805
Email	<a href="mailto:harp@harpintl.com">harp@harpintl.com</a>
Email of competent person	<a href="mailto:safety@harpintl.com">safety@harpintl.com</a>

#### 1.4 Emergency telephone number


Emergency telephone number	+44 (0) 1270 502 891 24 hours
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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification – EC 1272/2008	Compressed gas: H280
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#### 2.2 Label elements

Hazard pictograms	
Signal word	Warning
Hazard statement	H280 – Contains gas under pressure; may explode if heated
Precautionary statement	P410+P403 – Protect from sunlight. Store in a well-ventilated place.

#### 2.3 Other hazards

Other hazards	Asphyxiant in high concentrations. Risk of explosion if heated under confinement.
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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

EC 1272/2008

Chemical name	CAS No.	EC No.	REACH registration number	Concentration (%w/w)	Classification
Nitrogen	7727-37-9	231-783-9	Exempt (Listed in Annex IV/V of (EC) No. 1907/2006)	>90%	Compressed gas: H280
Hydrogen	1333-74-0	215-605-7	Exempt (Listed in Annex IV/V of (EC) No. 1907/2006)	1-10%	Flam. Gas 1: H220 Compressed gas: H280

The purity of the substance in this section is used for classification only and does not represent the actual purity of the substance as supplied.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Inhalation	Move the exposed person to fresh air
Eye contact	Adverse effects not expected
Skin contact	Adverse effects not expected
Ingestion	Ingestion is not considered a potential route of exposure

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

Inhalation	In high concentrations, may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.
Eye contact	Adverse effects not expected
Skin contact	Adverse effects not expected
Ingestion	Ingestion is not considered a potential route of exposure

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

Inhalation	Apply artificial respiration if breathing stopped
Eye contact	Adverse effects not expected
Skin contact	Adverse effects not expected
Ingestion	Ingestion is not considered a potential route of exposure

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

	Material will not burn. Use extinguishing media appropriate to the surrounding fire conditions.
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#### 5.2 Special hazards arising from the substance or mixture

	Exposure to fire may cause containers to rupture/explode
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#### 5.3 Advice for firefighters

	Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Move containers away from the fire area if safe to do so. Use self-contained breathing apparatus.
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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

	Try to stop release. Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.
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#### 6.2 Environmental precautions

	Try to stop release
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#### 6.3 Methods and material for containment and clean up

	Ventilate area
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#### 6.4 Reference to other sections

	See section 8 Exposure controls / personal protection See section 13 Disposal considerations
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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

	<p>Do not breathe gas. Avoid release of product into atmosphere. The substance must be handled in accordance with good hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief devices in gas installations. Check regularly for leaks. Do not smoke while handling product. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.</p> <p>Refer to supplier's container 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 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 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 labels provided by the supplier for the identification of the cylinder contents. Suck back of water into the container must be prevented.</p>
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#### 7.2 Conditions for safe storage, including any incompatibilities

	Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to cause corrosion. Container valve guards or caps should be in place. Containers should be stored in the vertical position and properly secured to prevent from falling over. Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated place. Store containers in a location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.
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### 7.3 Specific end use(s)

	None
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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters – exposure limit values

Component	CAS No.	Value type (form of exposure)	Exposure limit values	Source
Nitrogen	7727-37-9		Not listed in EH40	
Hydrogen	1333-74-0		Not listed in EH40	

### 8.2 Exposure controls

<b>Appropriate engineering controls</b>	Ensure adequate ventilation of the working area. Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularly checked for leaks. Consider work permit system for maintenance activities.
<b>Individual protection measures</b>	Wear protective clothing
<b>Eye/face protection</b>	Approved safety goggles
<b>Skin &amp; body protection</b>	Wear suitable gloves. Wear safety shoes when handling containers.
<b>Respiratory protection</b>	Wear suitable respiratory protection equipment when necessary
<b>Occupational exposure controls</b>	Keep away from food, drink and animal feedstuffs.
<b>Hygiene protection</b>	Good industrial hygiene and safety procedures. Do not eat, drink or smoke when using the product.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance - Physical state</b>	Gas
<b>Colour</b>	Colourless
<b>Odour</b>	Odourless
<b>Odour threshold</b>	Odour threshold is subjective and inadequate to warn of overexposure
<b>pH</b>	Not applicable
<b>Melting point</b>	No data available
<b>Boiling point / range</b>	No data available
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	This product is not flammable
<b>Upper explosion limit / Lower flammability limit</b>	Not applicable
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility(ies) Water solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity Viscosity, kinematic</b>	No data available
<b>Explosive properties</b>	Not applicable
<b>Oxidising properties</b>	Not applicable

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### 9.2 Other information

	No data available
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

	No reactivity hazard other than the effects described in sub-sections below
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### 10.2 Chemical stability

	Stable under normal conditions
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### 10.3 Possibility of hazardous reactions

	None
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### 10.4 Conditions to avoid

	None under recommended storage and handling conditions
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### 10.5 Incompatible materials

	No reaction with any common materials in dry or wet conditions
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### 10.6 Hazardous decomposition products

	Under normal conditions of storage and use, hazardous decomposition products should not be produced
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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Not applicable for gases and gas mixtures

## SECTION 12: Ecological information

### 12.1 Toxicity

	No ecological damage caused by this product
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### 12.2 Persistence and degradability

	No ecological damage caused by this product
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### 12.3 Bioaccumulative potential

	No ecological damage caused by this product
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### 12.4 Mobility in soil

	No ecological damage caused by this product
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### 12.5 Results of PBT and vPvB assessment

	Not classified as PBT or vPvB
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### 12.6 Other adverse effects

	Global Warming Potential: 0
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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

	Consult supplier for specific recommendations. May be vented to atmosphere in well-ventilated place. Do not discharge into any place where its accumulation could be dangerous. Dispose of container via supplier only. EWC code: 16 05 05
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### SECTION 14: Transport information

#### Hazard pictograms

	
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#### 14.1 UN number

	UN 1956
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#### 14.2 UN proper shipping name

	COMPRESSED GAS, N.O.S
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#### 14.3 Transport hazard class(es)

<b>ADR/RID</b>	
Class	2
Labels	2.2
Hazard No. (ADR)	20
Tunnel category	(E)
Packing instruction	-
<b>IMDG</b>	
Class	2.2
EmS No.	F-C, S-V
Packing instruction	-
<b>IATA</b>	
Class	2.2
Packing instruction	-

#### 14.4 Packing group

	Not applicable
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#### 14.5 Environmental hazards

Environmental hazards	Not applicable
Marine pollutant	Not classified as a marine pollutant

#### 14.6 Special precautions for user

	Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure container valves are closed, not leaking and caps in place. Ensure containers are firmly secured. Ensure adequate air ventilation.
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#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	Not applicable
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### SECTION 15: Regulatory information

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

<b>Regulations</b>	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
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#### 15.2 Chemical safety assessment

	A CSA has not been carried out for this product
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### SECTION 16: Other information

#### Other information

<b>Text of Hazard Statements in Section 3</b>	H280: Contains gas under pressure; may explode if heated. H220: Extremely flammable gas
<b>Reference materials</b>	HSE publication EH40/2005 Workplace exposure limits (latest edition)
<b>Changes from previous versions</b>	-

#### Further information

	The information supplied in this safety data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made of its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the material in the user's end product, if applicable.
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