



# Gas Horn Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 12/12/2014

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Version: 1.1

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

### 1.1. Product identifier

Product form : Mixture  
Name : Gas Horn

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

#### 1.2.1. Relevant identified uses

Main use category : Consumer use, Professional use  
Use of the substance/mixture : Mixture for aerosol application

#### 1.2.2. Uses advised against

No additional information available

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

Sentura Group  
3 Lands End Way  
Oakham  
Rutland  
LE15 6RB  
United Kingdom

T: +44 (0)1572 770333

F: +44 (0)1572 770133

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
UNITED KINGDOM	National Poisons Information Service (NHS Direct)	<a href="http://www.npis.org">http://www.npis.org</a>	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Aerosol 3 H229

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Signal word (CLP) : Warning  
Hazard statements (CLP) : H229 - Pressurised container: May burst if heated  
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P251 - Do not pierce or burn, even after use  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable



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## 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
trans-1,3,3,3-tetrafluoroprop-1-ene substance with national workplace exposure limit(s) (IT, PT)	(CAS No) 29118-24-9	>= 80	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
trans-1,3,3,3-tetrafluoroprop-1-ene substance with national workplace exposure limit(s) (IT, PT)	(CAS No) 29118-24-9	>= 80	Liquefied gas, H280

Full text of R- and H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat and ignition sources.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

Italy - Portugal - USA ACGIH ACGIH TWA (ppm)

800 ppm WEEL:US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

#### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.

Personal protective equipment : Protective goggles. Gloves.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Gas

Appearance : Liquefied gas.

Molecular mass : 114,00 g/mol

Colour : Colourless.

Odour : slight. Ether-like odour.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : -19 °C (760 mm Hg)

Flash point : No data available

Auto-ignition temperature : 368 °C (1007 hPa)

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable

Vapour pressure : 4271 hPa

Relative vapour density at 20 °C : 4

Relative density : 1,17 (21 °C)

Density : 1170 kg/m<sup>3</sup> (21 °C)

Solubility : Insoluble in water.  
Water: 0,0373 g/100ml (24 °C)

Log Pow : 1,6 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 25 °C)



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Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content	: 100 %
Other properties	: Gas/vapour heavier than air at 20°C.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
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#### trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

LC50 inhalation rat (mg/l)	> 965 mg/l/4h (Rat; Read-across)
LC50 inhalation rat (ppm)	> 359300 ppm/4h (Rat; Read-across)

Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

EC50 other aquatic organisms 1	> 160 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 170 mg/l (72 h; Selenastrum capricornutum)

#### 12.2. Persistence and degradability

##### Gas Horn

Persistence and degradability	Not established.
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##### trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

Persistence and degradability	Not readily biodegradable in water. Not applicable (gas).
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#### 12.3. Bioaccumulative potential

##### Gas Horn

Log Pow	1,6 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 25 °C)
Bioaccumulative potential	Not established.

##### trans-1,3,3,3-tetrafluoroprop-1-ene (29118-24-9)

Log Pow	1,6 (OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 25 °C)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 14 06 00 - waste organic solvents, refrigerants and foam/aerosol propellants

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : 1950

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS  
 Transport document description (ADR) : UN 1950 AEROSOLS (CONTAINS ; trans-1,3,3,3-tetrafluoroprop-1-ene(29118-24-9)), 2.2, (E)

#### 14.3. Transport hazard class(es)

Class (ADR) : 2  
 Danger labels (ADR) : 2.2



#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Classification code (ADR) : 5A  
 Special provisions (ADR) 190, 327, 344, 625  
 Transport category (ADR) 3  
 Tunnel restriction code (ADR) : E  
 Limited quantities (ADR) 1I  
 Excepted quantities (ADR) : E0

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions  
 Gas Horn is not on the REACH Candidate List  
 Contains no substance on the REACH candidate list  
 Contains no REACH Annex XIV substances  
 VOC content : 100 %

#### 15.1.2. National regulations

Water hazard class (WGK) : 1 - low hazard to waters  
 WGK remark : Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)  
 Storage class (LGK) : LGK 2B - Aerosols

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases:

Aerosol 3	Aerosol, Category 3
Liquefied gas	Gases under pressure : Liquefied gas
H229	Pressurised container: May burst if heated
H280	Contains gas under pressure; may explode if heated

SDS EU\_NSC

*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*