



## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : GAS HORN SPRAY

Product code : 32017 & 32018.

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

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

Registered company name : ELETTROMECCANICA BELLI S.r.l.

Address : Via Virgilio, 30 - .21100.Varese (VA).Italy.

Telephone : +39 0332/227500. Fax : +39 0332/223275.

[amministrazione@voxbell.it](mailto:amministrazione@voxbell.it)

[www.voxbell.it](http://www.voxbell.it)

#### 1.4. Emergency telephone number : +39 02/66101029.

Association/Organisation : Poison center Hospital Niguarda (Milano).

### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 3 (Aerosol 3, H229).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

#### 2.2. Label elements

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Signal Word :

WARNING

Hazard statements :

H229 Pressurised container: May burst if heated.

Precautionary statements - General :

P102 Keep out of reach of children.

Precautionary statements - Prevention :

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.

Precautionary statements - Storage :

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

#### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

Intentional misuse of the preparation by concentrating and inhaling the vapours can be harmful or fatal.

## GAS HORN SPRAY - HFO

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixtures

## Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 29118-24-9	GHS04	[1]	50 <= x % < 100
EC: 471-480-0	Wng	[7]	
REACH: 01-0000019758-54	Press. Gas, H280		
TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE			

(Full text of H-phrases: see section 16)

## Information on ingredients :

[7] Propellant gas

[1] Substance for which maximum workplace exposure limits are available.

## SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

## 4.1. Description of first aid measures

## In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

## In the event of splashes or contact with eyes :

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists :  
Get medical advice/attention.

## In the event of splashes or contact with skin :

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

## In the event of swallowing :

Seek medical attention, showing the label.

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

See section 11.

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

If you feel unwell, seek medical advice (show the label if possible). If symptoms persist, always call a doctor.

## SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

## 5.1. Extinguishing media

If the aerosols are exposed to a fire : keep containers cool by spraying with water from a protected position.

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

## 5.3. Advice for firefighters

If possible, stop the product stream. Spray from a protected position till the containers are cool. If possible, take the aerosols outside. Keep public at a distance.

## GAS HORN SPRAY -HFO

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

## For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

## 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

Clean preferably with a detergent, do not use solvents.

## 6.4. Reference to other sections

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

## 7.1. Precautions for safe handling

Always wash hands after handling.

## Fire prevention :

Do not pierce or burn, even after use.

Prevent access by unauthorised personnel.

## Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

## Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

## Storage

Keep out of reach of children.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Storage in a dry, frost-free and well ventilated place.

## Packaging

Always keep in packaging made of an identical material to the original.

## 7.3. Specific end use(s)

No data available.

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

## Occupational exposure limits :

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

CAS	VME :	VME :	Excess	Notes
29118-24-9		1000 ppm 4700 mg/m <sup>3</sup>		2(II)

## Derived no effect level (DNEL) or derived minimum effect level (DMEL):

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE (CAS: 29118-24-9)

Final use: Workers.

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL : 3902 mg of substance/m<sup>3</sup>

## GAS HORN SPRAY - HFO

Final use:	Consumers.
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	830 mg of substance/m <sup>3</sup>

## Predicted no effect concentration (PNEC):

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE (CAS: 29118-24-9)	
Environmental compartment:	Fresh water.
PNEC :	0.1 mg/l

## 8.2. Exposure controls

## Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

## - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

Do not spray in the direction of the eyes.

## - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Not necessary at efficient use. Wash your hands after contact with skin.

## - Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Not necessary at efficient use. Wash skin that has been in contact with the product, with water and soap.

## - Respiratory protection

Do not breathe spray. Use only in well-ventilated areas.

## Exposure controls linked to environmental protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

## General information :

Physical state :	Fluid liquid. Spray.
Color :	Colourless, clear
Odour :	Ether-like

## Important health, safety and environmental information

pH :	Not relevant.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	1.170
Water solubility :	Insoluble.
Flash point :	Not applicable
Flammability :	Not applicable

## 9.2. Other information

VOC (g/l) :	1170.00
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GAS HORN SPRAY - HFO

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat and sources of ignition. Storage in a dry, frost-free and well ventilated place.

10.5. Incompatible materials

No materials known by which a dangerous reaction can occur.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

The product is stable. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No data available.

11.1.1. Substances

Acute toxicity :

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE (CAS: 29118-24-9)

Inhalation route (Vapours) : LC50 = 207000 ppm

Species : Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/skin irritation :

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE (CAS: 29118-24-9)

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Germ cell mutagenicity :

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE (CAS: 29118-24-9)

No mutagenic effect.

Mutagenesis (in vivo) :

Negative.

Species : Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro) :

Negative.

Species : Others

OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Ames test (in vitro) :

Negative.

Reproductive toxicant :

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE (CAS: 29118-24-9)

No toxic effect for reproduction

Study on fertility :

Species : Rat

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Study on development :

Species : Rat

GAS HORN SPRAY -HFO

OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

Specific target organ systemic toxicity - repeated exposure :

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE (CAS: 29118-24-9)  
Inhalation route : C > 5000 ppmV/6h/day  
Species : Rat  
Duration of exposure : 90 days  
OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE (CAS: 29118-24-9)  
Fish toxicity : LC50 > 117 mg/l  
Species : Cyprinus carpio  
Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC > 117 mg/l  
Species : Cyprinus carpio  
Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 > 160 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h  
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity : ECr50 > 170 mg/l  
Duration of exposure : 72 h  
OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC > 170 mg/l  
Duration of exposure : 72 h  
OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE (CAS: 29118-24-9)  
Biodegradability : Non-rapidly degradable.

12.3. Bioaccumulative potential

12.3.1. Substances

TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE (CAS: 29118-24-9)  
Octanol/water partition coefficient : log K<sub>ow</sub> ≤ 4

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

## GAS HORN SPRAY - HFO

## 12.6. Other adverse effects

No data available.

## SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

## 13.1. Waste treatment methods

Do not pour into drains or waterways.

## Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

## Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

## SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

## 14.1. UN number

1950

## 14.2. UN proper shipping name

UN1950=AEROSOLS, asphyxiant

## 14.3. Transport hazard class(es)

- Classification :



2.2

ADR/RID Label : Limited Quantity : 2.2 is not applicable.

## 14.4. Packing group

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## 14.5. Environmental hazards

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## 14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5A	-	2.2	-	1 L	190 327 344 625	E0	3	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	2	See SP63	-	See SP277	F-D,S-U	63 190 277 327 344 381 959	E0

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	2.2	-	-	203	75 kg	203	150 kg	A98 A145 A167 A802	E0
	2.2	-	-	Y203	30 kg G	-	-	A98 A145 A167 A802	E0

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

