

FIRECHIEF GAS HORN AEROSOL

Issue date: V1 21/04/23
Page: 1

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Gas Horn Aerosol
Product code: FGH150, FGHR150, FGH190 & FGHR190.

1.2 Details of the supplier of the safety data sheet

Company name: Firechief Global
3 Lands End Way
OAKHAM Rutland
LE15 6RB
Emails address: sales@firechiefglobal.com

1.3 Emergency telephone number

Emergency tel: +44 (0)330 999 0019 (office hours 08:00 - 17:00)

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).

Repeated inhalation of vapors can cause drowsiness and giddiness, note possible occupational exposure thresholds (see paragraph 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.

Section 3. Composition/information on ingredients

3.1 Mixtures

Composition :

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

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

FIRECHIEF GAS HORN AEROSOL

Issue date: V1 21/04/23
Page: 2

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, vent the immediate area and remove the person 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 soap and plenty of running 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. Fire Fighting Measures

Aerosol under pressure, with non-flammable contents

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 (CO₂)

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.

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.



+44 (0) 330 999 0019



sales@firechiefglobal.com



firechiefglobal.com

FIRECHIEF GAS HORN AEROSOL

Issue date: V1 21/04/23
Page: 3

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 :

Keep away from heat sources, sparks, open flames

Avoid contact with eyes, skin and clothing

Do not use in confined and / or limited spaces

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 8.1. Control parameters

Occupationalexposurelimits:

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

CAS	VME :	VME :	Excess	Notes
29118-24-9		1000 ppm 4700 mg/m ³		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/m³

Final use: Consumers.

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

FIRECHIEF GAS HORN AEROSOL

Issue date: V1 21/04/23
Page: 4

DNEL : 830 mg of substance/m³

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.
Colour : 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



+44 (0) 330 999 0019



sales@firechiefglobal.com



firechiefglobal.com

FIRECHIEF GAS HORN AEROSOL

Issue date: V1 21/04/23
Page: 5

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 (CO₂)

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.

11.2 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
OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)



+44 (0) 330 999 0019



sales@firechiefglobal.com



firechiefglobal.com

FIRECHIEF GAS HORN AEROSOL

Issue date: V1 21/04/23
Page: 6

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)

11.3 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_{ow} ≤ 4

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

FIRECHIEF GAS HORN AEROSOL

Issue date: V1 21/04/23
Page: 7

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). ADR exemption because of compliance with the following: combined packaging: per inner packaging 11 per 30kg package. Inner packaging placed in shrink-wrapped or stretch-wrapped trays per inner packaged 11 per 20kg package

14.1 UN number

1950

14.2 UN proper shipping name

UN1950=AEROSOLS, asphyxiant

14.3 Transport hazard class(es)

- Classification :



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

14.4 Packing group

-

14.5 Environmental hazards

-

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	75kg	203	150kg	A98 A145 A167 A802	E0
	2.2	-	-	Y203	30kg G	-	-	A98 A145 A167 A802	E0

FIRECHIEF GAS HORN AEROSOL

Issue date: V1 21/04/23
Page: 8

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

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

Section 15. Regulatory information

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 75/324/CEE modified by directive 2013/10/UE

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2016/1179. (ATP 9)

- Container information:

No data available.

- Particular provisions :

No data available.

15.2 Chemical safety assessment

No data available.

Section 16. Other information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H280 Contains gas under pressure; may explode if heated.

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.



+44 (0) 330 999 0019



sales@firechiefglobal.com



firechiefglobal.com