



SAFETY DATA SHEET

Spray AntiFog® PLUS+

According to Regulation (EC) No 1907/2006, modified by Regulation (EU) No 2020/878
Revision: 17/01/25. Version: 5.0.

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

1.1. Product identifier

Product name : Spray AntiFog® PLUS+.
Product code : 914228_914229
REACH Product type : Mixture.
REACH registration number : See section 3.
UFI : VC00-X01G-K00F-FN7E.

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

1.2.1 Identified uses:

Anti-fog treatment for lenses and face shields.

1.2.2. Uses advised against:

None identified. See section 15.1 for further information.

1.3. Details of the supplier of the safety data sheet

MEDOP S.A.
Bruno Mauricio Zabala 16 4º Izq.
48003 Bilbao (Spain)
Tel. (+34) 94 479 02 80
www.medop.es
E-mail address of competent person responsible for the SDS: info@medop.es.

1.4. Emergency telephone number

Telephone number of the supplier: +34 94 479 02 80 (only available during office hours: 08:00 - 17:30 CET).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 (CLP):

Hazards	Hazard class and category	Hazard statement code
Physical Hazards:	Flammable liquids, hazard category 3.	Flammable liquid and vapour (H226).
Health hazards:	Not classified.	-
Environmental hazards:	Not classified.	-

2.2. Label elements

Labelling in accordance with Regulation (EC) 1272/2008:

Signal word:

Warning.

Hazard pictograms:



Hazard statements:

H226: Flammable liquid and vapour.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P370 + P378: In case of fire: Use dry chemical powder, carbon dioxide or sand to extinguish.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

Labelling of packages where the contents do not exceed 125 ml:

Signal word:

Warning.

Hazard pictograms:



Supplemental information:

Keep away from children. Do not ingest.

Nominal quantity: 30 ml / 60 ml (depending on reference).

Non-ionic surfactants: <5%.

2.3. Other hazards

This mixture does not contain any substance considered PBT or vPvB, or identified as having endocrine disrupting properties, in a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No 1272/2008; substances for which there are Union workplace exposure limits; substances that are PBT or vPvB; or included in the Candidate List for authorisation:

Name	Identifiers	Conc. (w/w)	CLP Classification [1]	SCL / M factors / ATE
Ethanol	CAS: 64-17-5 CE: 200-578-6 REACH number: [2] CLP Index: 603-002-00-5.	10 < 20 %	Flam. Liq. 2; H225 Eye Irrit. 2; H319	SCL: Eye Irrit. 2; C ≥ 50 % [3] M factor acute: Not applicable. M factor chronic: Not applicable. ATE oral: >2000 mg/kg. ATE inh.: 114 mg/l vapours. ATE dermal: >2000 mg/kg.
Poly(oxy-1,2-ethanediyl), α-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)-ω-hydroxy-	CAS: 52550-44-4 CE: - REACH number: Polymer CLP Index: -	1 < 3 %	Acute Tox. 4; H302 STOT RE 2; H373 Aquatic Chronic 3; H412	SCL: Not applicable. M factor acute: Not applicable. M factor chronic: Not applicable. ATE oral: 410 mg/kg. ATE inh.: >5 mg/l aerosol. ATE dermal: >2000 mg/kg.

[1] For the full text of the hazard statement codes mentioned in this section, see section 16. [2] This substance is exempt from registration (substance manufactured/imported below the threshold limit required in Regulation EC 1907/2006 article 6(1)). [3] SCL set by manufacturers.

SECTION 4: First aid measures

4.1. Description of first aid measures

Symptoms resulting from chemical poisoning may manifest after a prolonged period following exposure. Therefore, in case of doubt or discomfort, medical attention should be sought, and this SDS should be shown to medical personnel.

Inhalation:

In case of discomfort, move the affected person to a well-ventilated area, loosen their clothing, place them in the most comfortable position, and protect them from cold. Seek immediate medical attention if any discomfort or respiratory difficulty arises.

Skin contact:

Wash the area thoroughly with plenty of water. Seek medical attention if any irritation or redness develops or persists.

Eye contact:

Rinse eyes with plenty of water at room temperature for at least 10 minutes. Prevent the person from rubbing or closing their eyes. If the person uses contact lenses, these should be removed as long as they are not stuck to their eyes, otherwise further damage may occur. Obtain medical attention and show this SDS if pain, blinking or redness persist.

Ingestion:

If the victim is unconscious, do not give anything to drink or eat. Seek medical attention immediately and show this SDS to the emergency services.

If the affected person is conscious, rinse the mouth with plenty of water to decontaminate the oral mucosa, but do not allow swallowing. DO NOT INDUCE VOMITING unless medically prescribed. In the event of spontaneous vomiting, hold the person's head forward to prevent aspiration. Seek medical advice and show this SDS to the emergency services.

4.2. Most important symptoms and effects, both acute and delayed**4.2.1. Acute effects:**

No information available.

4.2.2. Delayed effects:

No information available.

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

No data available. Symptomatic treatment.

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

5.1.1. Suitable extinguishing media: Use dry chemical powder, carbon dioxide or sand to extinguish.

5.1.2. Unsuitable extinguishing media: It is not recommended to use water jet as an extinguishing agent (this may spread the fire).

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

In the event of fire, quickly isolate the area by evacuating all persons from the vicinity of the incident. Refrain from any action which may endanger other persons and do not allow untrained personnel to intervene.

Fire-fighters must wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operating in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 provides a basic level of protection for chemical incidents. Clothing not conforming to EN 469 may not be suitable in any chemical incident.

SECTION 6: Accidental release measures

Note: The information given below refers to spills of a certain entity (several litres), where risk of formation of hazardous vapours that can result in an explosion or fire may arise.

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel: Alert your colleagues and ensure good ventilation while evacuating the area. Keep unnecessary personnel away from the area where the spill has occurred. Do not breathe vapour. Do not touch or walk through spilled material.

6.1.2. For emergency responders: Keep unnecessary personnel away. Ensure adequate ventilation. Prevent entry of product into basements. Avoid direct contact with the product by using appropriate personal protective equipment during all clean-up activities. Do not breathe vapour which may be formed.

6.2. Environmental precautions

Prevent spilled contents from entering watercourses. Notify the relevant authorities if a large quantity of the product reaches watercourses or the sewage system.

6.3. Methods and material for containment and cleaning up

6.3.1. Large spills: Contain with non-combustible absorbent materials such as sand or earth to prevent from reaching drains or waterways. Scoop or shovel spilled material into properly labelled containers that can be closed, then store and dispose of according to local regulations.

6.3.2. Small spills: Contain with non-combustible absorbent materials and collect mechanically the spilled material. Place it into

an appropriate container. Then store and dispose of the waste in accordance with local regulations.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep container tightly closed when not in use. Do not mix the product with incompatible materials (see section 10). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Please carefully review the usage guidelines provided on the labelling. Avoid breathing vapours. Avoid contact with eyes, skin, and clothing. Always observe good occupational hygiene practices: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Requirements for safe storage: Keep the product in its original packaging. Store in a cool, dry place, away from sources of ignition, heat, and direct sunlight. Stack containers in a manner that ensures their stability.

7.2.2. Keep the product away from: See section 10.

7.2.3. Unsuitable packaging material: Not known.

7.3. Specific end use(s)

Anti-fog treatment for lenses and face shields.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure:

a) Occupational exposure limit values:

Country	Substance	Long-term		Short-term		Remarks
		ppm	mg/m ³	ppm	mg/m ³	
Austria	Ethanol (64-17-5)	1000	1900	2000 [1]	3800 [1]	(1) 60 minutes average value.
Belgium		1000	1907	-	-	-
Czech Republic		522	1000	1566	3000	-
Denmark		1000	1900	2000	3800	-
Finland		1000	1900	1300 [1]	2500 [1]	(1) 15 minutes average value.
France		1000	1900	5000	9500	-
Germany (AGS /DFG)		200	380	800 [1]	1520 [1]	(1) 15 minutes average value.
Hungary		-	1900	-	3800 [1]	(1) 15 minutes average value.
Ireland		-	-	1000 [1]	-	(1) 15 minutes reference period.
Latvia		-	1000	-	-	-
Poland		-	1900	-	-	-
Portugal		-	-	1000	-	-
Romania		1000	1900	5000 [1]	9500 [1]	(1) 15 minutes average value.
Slovenia		500	960	1000	1920	-
Spain		-	-	1900	1910	-
Sweden		500	1000	1000 [1]	1900 [1]	(1) 15 minutes average value.
The Netherlands		-	260 [1]	-	1900 [1]	(1) 15 minutes average value
USA - NIOSH		1000	1900	-	-	-
USA - OSHA		1000	1900	-	-	-

United Kingdom		1000	1920	-	-	-
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b) Biological limit values (BLV):

No limit values are set.

8.1.2. Recommended monitoring procedures: Follow standard monitoring procedures (e.g. EN 14042:2004 Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents).

8.1.3. Threshold values:

Derived no-effect levels (DNEL): Not applicable (substances exempted from chemical safety assessment).

Predicted no-effect concentration (PNEC): Not applicable (substances exempted from chemical safety assessment).

8.2. Exposure controls

8.2.1. Appropriate engineering controls: No special requirements.

8.2.2. Individual protection measures:

Respiratory protection: Considering the properties of the product and recommended conditions of use, no protection is required.

Hand protection: Considering the properties of the product and recommended conditions of use, no protection is required.

Eye protection: Considering the properties of the product and recommended conditions of use, no protection is required.

Body protection: Considering the properties of the product and recommended conditions of use, no protection is required.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet.

8.2.3. Environmental exposure controls

No specific restrictions, follow your local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- (a) Physical state: Liquid.
- (b) Colour: Transparent.
- (c) Odour: Mild.
- (d) Melting point/freezing point: No data available.
- (e) Boiling point or initial boiling point and boiling range: Ca. 100 °C.
- (f) Flammability: Flammable.
- (g) Lower and upper explosion limit: No data available.
- (h) Flash point: Ca. 40 °C (closed cup).
- (i) Auto-ignition temperature: No data available.
- (j) Decomposition temperature: No data available.
- (k) pH: Ca. 7.
- (l) Kinematic viscosity: No data available.
- (m) Solubility: Fully miscible.
- (n) Partition coefficient n-octanol/water (log value): Not applicable (mixture).
- (o) Vapour pressure: Very low at ambient temperature (23°C).
- (p) Density and/or relative density: Ca. 1.

- (q) **Relative vapour density:** No data available.
- (r) **Particle characteristics:** Not applicable (liquid).

9.2. Other information

No further information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction expected when handled and stored appropriately.

10.2. Chemical stability

Stable under normal conditions of use. Coating left on lens is non combustible and will not vaporize at temperatures below 70°C.

10.3. Possibility of hazardous reactions

Not known.

10.4. Conditions to avoid

Keep away from sources of ignition, heat, and direct sunlight.

10.5. Incompatible materials

Not known, as a precautionary measure keep away from strong acids, strong bases, oxidizing and reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition products may be hazardous to health or harmful to the environment.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1. Toxicological data:

Unless stated otherwise, calculation methods established in Part 3 of Annex I of Regulation (EC) 1272/2008 were used for the purpose of classification.

a) Acute toxicity:	Poly(oxy-1,2-ethanediyl), α-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)-ω-hydroxy- (CAS: 52550-44-4): - Oral: LD50 410 mg/kg (rat). - Inh.: LC50 > 5 mg/l (aerosol, rat). - Dermal: LD50 > 2000 mg/kg (rat). Ethanol (CAS: 64-17-5): - Oral: LD50 > 2000 mg/kg (rat). - Inh.: LC50 114 mg/l (vapours, rat). - Dermal: LD50 > 2000 mg/kg (rat). ATE mix oral: ca. 13000 mg/kg. Based on available data, the classification criteria are not met (method: calculation; source: supplier SDS).
b) Skin corrosion/irritation:	The mixture does not contain classified substances above relevant thresholds. Based on available data, the classification criteria are not met (method: calculation; source: supplier SDS).
c) Serious eye damage/irritation:	The mixture does not contain classified substances above relevant thresholds. Based on available data, the classification criteria are not met (method: calculation; source: supplier SDS).
d) Respiratory or skin sensitisation:	<u>Skin sensitisation:</u> The mixture does not contain classified substances above relevant thresholds. Based on available data, the classification criteria are not met (method: calculation; source: supplier SDS). <u>Respiratory sensitisation:</u> No data available.
e) Germ cell mutagenicity:	The mixture does not contain classified substances above relevant thresholds. Based on available data, the classification criteria are not met (method: calculation; source: supplier SDS).

f) Carcinogenicity:	The mixture does not contain classified substances above relevant thresholds. Based on available data, the classification criteria are not met (method: calculation; source: supplier SDS).
g) Reproductive toxicity:	The mixture does not contain classified substances above relevant thresholds. Based on available data, the classification criteria are not met (method: calculation; source: supplier SDS).
h) STOT-single exposure:	The mixture does not contain classified substances above relevant thresholds. Based on available data, the classification criteria are not met (method: calculation; source: supplier SDS).
i) STOT-repeated exposure:	The mixture does not contain classified substances above relevant thresholds. Based on available data, the classification criteria are not met (method: calculation; source: supplier SDS).
j) Aspiration hazard:	The mixture does not contain classified substances above relevant thresholds. Based on available data, the classification criteria are not met (method: calculation; source: supplier SDS).

11.1.2. Information on the likely routes of exposure

The product can be absorbed into the body by inhalation of its aerosol and by ingestion.

11.2. Information on other hazards

Endocrine-disrupting properties for human health have not been identified for the components of this mixture.

SECTION 12: Ecological information

12.1. Toxicity

Calculation methods established in Part 4 of Annex I of Regulation (EC) 1272/2008 have been used for hazard classification. The mixture does not contain substances classified as hazardous to the environment above relevant thresholds.

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 and vPvB assessment

PBT assessment is not applicable (substances exempt from chemical safety assessment).

12.6. Endocrine disrupting properties

Endocrine-disrupting properties for the environment have not been identified for the components of this mixture.

12.7. Other adverse effects

Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Please contact your supplier or an authorized waste management facility if you need guidance on disposing of the product.

Remaining product: Same safety measures in place for handling the product must be taken into consideration when handling waste. Waste should not be disposed of by release to sewers. Waste should be delivered to an authorized waste management facility for proper treatment and disposal.

Contaminated packaging: Disposal should be carried out in accordance with local regulations.

Applicable regulations (EU): Directive 2008/98/EC. Check your local regulations regarding waste.

SECTION 14: Transport information

14.1. UN number or ID number

UN 1993.

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es)

3.

14.4. Packing group

III.

14.5. Environmental hazards

No hazards identified.

14.6. Special precautions for user

Classification code: F1

Special provisions: 274, 601

Limited quantities: 5 L

Excepted quantities: E1

Transport category: 3

Tunnel restriction code: D/E

Hazard identification number: 30

EMS number: F-E, S-E.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable (bulk transport is not expected).

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

- REACH Annex XVII - Use Restrictions: General restriction for the use of flammable liquids in ornamental articles, tricks and jokes, games, decorative oil lamps, grill lighter fluids (entry 3).
- REACH Annex XIV - List of substances subject to authorization: Not listed.
- PIC Procedure (Regulation EC 649/2012): Not applicable.
- Explosives precursors (Regulation (EU) 2019/1148): Not applicable.
- Drug Precursors (Regulation CE 273/2004): Not applicable.

Storages:

- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances (SEVESO): P5c.
- Please refer to your local regulations on the storage of chemical products.
- Water hazard class (WGK) – Germany (AwSV): WGK 1.

15.2. Chemical safety assessment

Supplier has not carried out a chemical safety assessment of the mixture. Exposure scenarios for the substances contained in the mixture are not required (substances exempt from REACH registration).

SECTION 16: Other information**Advice on any training appropriate for workers:**

To ensure protection of human health and environment, workers must be provided with proper training about how to handle and store chemicals used at work.

Hazard statements in full and classification codes indicated in section 3:

Skin Irrit. 2: Skin irritation, hazard category 2.

Eye Irrit. 2: Serious eye irritation, hazard category 2.

Flam. Liq. 2: Flammable liquids, hazard category 2.

Acute Tox. 4: Acute toxicity, hazard category 4.

STOT RE 2: Specific target organ toxicity — Repeated exposure, hazard category 2.

Aquatic Chronic 3: Hazardous to the aquatic environment — Chronic hazard, hazard category 3.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

ATE	Acute Toxicity Estimation.
CLP	Regulation EC 1272/2008.
LC50	Lethal concentration 50 %.
LD50	Lethal dose 50 %.
PBT	Persistent, Bioaccumulative and Toxic.
PPE	Personal protective equipment.
REACH	Regulation EC 1907/2006.
SCL	Specific Concentration Limit.
SDS	Safety data sheet.
SVHC	Substances of very high concern.
UFI	Unique Formula Identifier.
vPvB	Very persistent and very bioaccumulative.

Methods of evaluating information used for the purpose of classification: See sections 11 and 12.

Version number: 5.0.

Replaced version: 4.0 (28/08/24).

Changes compared to the previous version: Changes in sections 1.1; 3; 2.2; 7.1; 9.1; 10.2; 11.1; 12.2; 12.3; 12.4;15.1; 16. Other minor editorial changes and updating of references.

Key literature references and sources for data:

- GESTIS International Limit Values database.
- Internal company documentation.
- OECD SIDS Initial Assessment Report (Ethanol), October 2004.
- Supplier Safety Data Sheets.
- ECHA database.

Note to the reader:

The information provided in this safety data sheet has been prepared in accordance with Regulation (EU) 2020/878. It is recommended that this Safety Data Sheet is carefully studied, and if necessary, consult a specialist in order to understand the data it contains. The information presented herein corresponds to the present state of our knowledge and is offered in good faith. Nevertheless, the purpose of this SDS is purely informative; it makes no implicit or explicit warranty or guarantee about the properties of the product.

The information provided in this SDS should be considered as a starting point for a comprehensive health and safety program in your company, if you need further information about the product to conduct your risk assessment, please contact us and we will try to assist you as much as possible.