

SAFETY DATA SHEET

according to Regulation (EU) 2020/878 of 18 June 2020 r.



20134 Anti-fog spray for glasses, 18 ml

Date of compilation: 28.02.2022

Revision: 11.10.2024

ver. 3.0

Page: 1/9

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

1.1. Product identifier

Product name:

20134 Anti-fog spray for glasses, 18 ml

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

Identified uses: Anti-fog coating for spectacles

Uses advised against: undefined

1.3. Details of the supplier of the safety data sheet

Nowy Samochód S.A.
ul. Zbyszka Cybulskiego 3,
00-725 Warszawa, Polska
+48 602-444-356
info@soft99.pl

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3

H226 Flammable liquid and vapour.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008

Signal word

WARNING

Pictograms



Hazard statements

H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

Prevention

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

P261 Avoid breathing vapours/spray.

SAFETY DATA SHEET

according to Regulation (EU) 2020/878 of 18 June 2020 r.



20134 Anti-fog spray for glasses, 18 ml

Date of compilation: 28.02.2022

Revision: 11.10.2024

ver. 3.0

Page: 2/9

P273

Avoid release to the environment.

Response

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

Storage

--

Removal

P501

Dispose of contents/container to properly labeled waste containers in accordance with local regulations.

2.3. Other hazards

This mixture does not contain substances that meet the criteria for PBT or vPvB in accordance with Annex XIII. There is no information about substances identified as having endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances - not applicable

3.2. Mixtures

Name of substance	Identifier	Classification 1272/2008	% weight
Fluorinated alkyl polyether	Index: -- CAS: 52550-44-4 EC: 680-232-2	Acute Tox. 4 Aquatic Chronic 3	H302 H412 < 5
1-[3-[4-((heptadecafluorononyl)oxy)-benzamido]propyl]-N, N,N-trimethylammonium iodide	Index: 612-185-00-0 CAS: 59493-72-0 EC: 407-400-8	Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1	H318 H400 H410 < 1
Ethanol ^[2]	Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6	Flam. Liq. 2	H225 25-35

Remarks

The full meaning of the risk phrases H included in the section 16

^[1] Specific concentration limits

--

^[2] Substance for which there are national occupational exposure limit values

^[3] Substance with a Union workplace exposure limit

^[4] SVHC: substances included in the list established in accordance with Article 59 (1)

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact

Remove contaminated clothing immediately.

Clean contaminated skin, wash with plenty of water, then wash with water and mild soap.

If skin irritation persists, consult a doctor.

Eye contact

Remove contact lenses.

Rinse contaminated eyes with lukewarm water for 10-15 minutes.

Avoid strong water stream - risk of cornea damage.

SAFETY DATA SHEET

according to Regulation (EU) 2020/878 of 18 June 2020 r.



20134 Anti-fog spray for glasses, 18 ml

Date of compilation: 28.02.2022

Revision: 11.10.2024

ver. 3.0

Page: 3/9

Provide medical assistance if necessary.

Ingestion

Do not induce vomiting.

Rinse mouth with water.

If medical advice is needed, have product container or label at hand.

If unconscious – do not give the person anything to swallow.

Provide medical assistance. Transport the injured person to a hospital if necessary.

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Ensure warmth and calm.

Provide medical assistance if necessary.

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

No data available

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

Symptomatic treatment.

First aid supplies should be available on the workplace premises.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol-resistant fire-fighting foam, carbon dioxide CO₂, fire-extinguisher powders, dispersed water.

Unsuitable extinguishing media

Do not direct dense jets of water onto the surface of a burning product.

5.2. Special hazards arising from the substance or mixture

Flammable liquid and vapour.

Combustion products

Toxic thermal decomposition products (N, P, S, or/and halogen in the molecule), as well as carbon monoxide and carbon dioxide (CO_x), nitrogen oxides (NO_x) may be generated during combustion.

Explosive mixtures

Some components may form explosive mixtures with air under favourable thermal conditions.

5.3. Advice for firefighters

Use standard firefighting methods for extinguishing chemical fires.

Use water to cool containers exposed to high temperatures, and if possible, remove them from the area affected.

Use water spray jets to disperse vapours.

Prevent from entering contaminated water and other extinguishing agents into sewage system and ground water.

Fire-fighter protective equipment

Full personal protective equipment.

Self-contained breathing equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid contact with eyes and skin. Wear appropriate protective equipment.

Remove all sources of ignition. Keep all persons not equipped with personal protection equipment away.

In case of a discharge of a significant volume of the mixture, warn its users and order all bystanders to leave the contaminated area.

Risk of slipping on spilt product.

6.2. Environmental precautions

SAFETY DATA SHEET

according to Regulation (EU) 2020/878 of 18 June 2020 r.



20134 Anti-fog spray for glasses, 18 ml

Date of compilation: 28.02.2022

Revision: 11.10.2024

ver. 3.0

Page: 4/9

Prevent environmental contamination.

Protect drains.

In case of serious contamination of soil, watercourse or sewage system, notify the appropriate authorities.

6.3. Methods and material for containment and cleaning up

Secure any damaged packaging.

Ventilate the area affected and avoid inhaling vapours.

Collect mechanically and with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite).

Place all contaminated mass collected in a substitute container and send it for disposal in accordance with the local regulations.

Rinse the contaminated surface with plenty of water.

Use non-sparking tools.

6.4. Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Recommendations for handling the mixture

Provide adequate ventilation.

Avoid contact with eyes and skin.

Avoid inhaling product vapours/ spray.

General industrial health and safety regulations

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Replace contaminated clothing.

Wash contaminated clothing before reusing.

Guidance on fire and explosion prevention

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

In case of usage and/or insufficient ventilation, highly-explosive and flammable mixtures may form.

Prevent accumulation of electrostatic charges.

Use non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Storage rooms must be ventilated.

Keep container tightly closed.

Store in a dry and cool place.

Keep only in the original container.

Keep away from sunlight, as well as heat and ignition sources.

Do not store together with foodstuffs and animal feed.

Do not handle until all safety precautions have been read and understood.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace

Name of the chemical
agent

CAS

Limit values
Long-term

Short-term

Comments

SAFETY DATA SHEET

according to Regulation (EU) 2020/878 of 18 June 2020 r.



20134 Anti-fog spray for glasses, 18 ml

Date of compilation: 28.02.2022

Revision: 11.10.2024

ver. 3.0

Page: 5/9

		ppm	mg/m ³	ppm	mg/m ³	
Ethanol	64-17-5	--	--	--	--	-

DNEL /PNEC

No data available

8.2. Exposure controls

Appropriate engineering controls

Workstations and storage rooms must be well ventilated to keep the dust/vapour concentrations in the air below their limit values.

Individual protection measures



Eye or face protection

In case of danger, use safety goggles compliant with the EN 166 standard.

Skin protection



Hand protection

In case of danger, use chemical-resistant protective gloves compliant with the EN 374 standard.

Recommended material: solvent resistant gloves or vinyl gloves.

Select glove material based on breakthrough time, rate of penetration and degradation.

It is recommended to change gloves regularly and immediately replace them if they have any signs of wear, damage (tears, holes) or their appearance changes (colour, flexibility, shape).

Body protection

Suitable protective clothing.

The type of protective equipment must be selected based on the quantity and concentration of hazardous substances in the given work environment.

Respiratory protection

In case of hazard due to the mixture vapours levels exceeding allowable levels in the air (e.g. due to ventilation failure), wear respiratory protection equipment.

Environmental exposure controls

Do not discharge into drains and groundwater.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Transparent, light brown to light yellow
Odour	Characteristic
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	84-100°C
Flammability	Flammable
Lower and upper explosion limit	3.3-19 %vol (ethanol)
Flash point	28°C (by analogy)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	7.5±0.5 (25°C)

SAFETY DATA SHEET

according to Regulation (EU) 2020/878 of 18 June 2020 r.



20134 Anti-fog spray for glasses, 18 ml

Date of compilation: 28.02.2022

Revision: 11.10.2024

ver. 3.0

Page: 6/9

Kinematic viscosity	No data available
Solubility	Soluble
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure	No data available
Density and/or relative density	0.960 ± 0.01 (25°C)
Relative vapour density	No data available
Particle characteristics	Not applicable

9.2. Other information

Information with regard to physical hazard classes

No data available

Other safety characteristics

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is not chemically reactive if stored and used under proper conditions.

10.2. Chemical stability

The mixture is chemically stable if stored and used under proper conditions.

10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidants. May cause fire or explosion.

10.4. Conditions to avoid

Avoid direct sunlight, sources of heat and fire.

10.5. Incompatible materials

Strong oxidants

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

Ethanol [CAS 64-17-5]

LD50 (oral, rat): 6,2 - 17,8 g/kg

LD50Lo (skin, rabbit): 20000 mg / kg

LC50 (inhalation, rat): 124,7 mg / L

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

SAFETY DATA SHEET

according to Regulation (EU) 2020/878 of 18 June 2020 r.



20134 Anti-fog spray for glasses, 18 ml

Date of compilation: 28.02.2022

Revision: 11.10.2024

ver. 3.0

Page: 7/9

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

No data

Other information

No data

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Ethanol [CAS 64-17-5]

LC50 fish: 11200 ppm /96h (Oncorhynchus mykiss)

12.2. Persistence and degradability

No data

12.3. Bioaccumulative potential

No data

12.4. Mobility in soil

No data

12.5. Results of PBT and vPvB assessment

This mixture does not contain substances that meet the criteria for PBT or vPvB in accordance with Annex XIII.

12.6. Endocrine disrupting properties

No data

12.7. Other adverse effects

No data

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with current regulations.

Hand over any used packaging to an authorised company for disposal or reuse.

Do not discharge into drains, sewage systems or surface waters.

Store waste in original containers.

Only completely emptied packaging can be recycled.

Waste codes

Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

14.1. UN number or ID number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Label no. :

UN 1993
FLAMMABLE LIQUID, N.O.S.
(contains Ethanol)

3



SAFETY DATA SHEET

according to Regulation (EU) 2020/878 of 18 June 2020 r.



20134 Anti-fog spray for glasses, 18 ml

Date of compilation: 28.02.2022

Revision: 11.10.2024

ver. 3.0

Page: 8/9

14.4. Packing group

III

14.5. Environmental hazards

No

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

- Regulation (EC) No 1272/2008 (CLP) 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 (REACH).
- REGULATION (EC) No 1907/2006 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.
- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2. Chemical safety assessment

No data

SECTION 16: Other information

Full text of H-phrases mentioned in section 3:

- H225** Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Changes: section: 1-16

Training advice

Read Safety Data Sheet before use.

Classification procedures according to Regulation (EC) 1272/2008

Classification based on calculation procedure and manufacturer data

Abbreviations and Acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

PP: Severe Marine Pollutant

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

SAFETY DATA SHEET

according to Regulation (EU) 2020/878 of 18 June 2020 r.



20134 Anti-fog spray for glasses, 18 ml

Date of compilation: 28.02.2022

Revision: 11.10.2024

ver. 3.0

Page: 9/9

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

The safety data sheet was compiled based on of the safety data sheet provided by the manufacturer, literature data, online databases and the current state of knowledge.

Note to readers

The product described in the safety data sheet should be stored and used in accordance with good industrial practices and in compliance with all applicable legal regulations.

The information contained in the safety data sheet is based on the current state of knowledge and is intended to describe the product in terms of health, safety and environmental regulations. It should not be considered a guarantee of any specific product properties.

We cannot make any representations or warranties regarding the accuracy or completeness of any information provided or the quality or specifications of any products, substances or mixtures discussed herein.

The user is responsible for creating conditions for the safe use of the product and for the consequences of its misuse.

Przedsiębiorstwo EKOS S.C.

80-177 Gdańsk, ul. Lubczykowa 5,

ekos@ekos.gda.pl

www.ekos.gda.pl