

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

AIRSOL podchlazovací sprej

Creation date	27th July 2018	Version	2
Revision date	25th November 2022		

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

1.1. Product identifier AIRSOL podchlazovací sprej
Substance / mixture mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use

Freezing spray

The use descriptors

IS Use at industrial sites

PW Widespread use by professional workers

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	NOVATO
Address	Uralská 770/6, Praha, 160 00 Czech Republic
Identification number (CRN)	62910370
VAT Reg No	CZ62910370
Phone	+420 233 339 688
E-mail	petr.johanides@novato.cz
Web address	www.novato.cz

Competent person responsible for the safety data sheet

Name	ABITEC
E-mail	info@abitec.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H229, H222

Most serious adverse physico-chemical effects

The mixture is extremely flammable. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 ° C. Do not puncture or throw an empty container into a fire. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children. Imperfect combustion can release dangerous gases.

Most serious adverse effects on human health and the environment

The mixture is not classified as dangerous for the environment. Follow the instructions for use to avoid risks to humans and the environment. Avoid leakage into soil, underground or surface water or sewage. The full text of the classifications and H-statements is given in section 16 of this safety data sheet.

2.2. Label elements

Hazard pictogram



Signal word

Danger

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Hazard statements

- H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P260 Do not breathe spray.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

2.3. Other hazards

Neither the mixture nor its components meet the criteria for persistent, bioaccumulative and toxic or highly persistent and highly bioaccumulative substances in accordance with Annex XIII, nor have they been included in the list drawn up in accordance with Article 59, paragraph 1, due to the content of endocrine disruptors , nor has it been determined as a substance with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-004-01-8 CAS: 75-28-5 EC: 200-857-2	isobutane	25-50	Press. Gas, Flam. Gas 1, H220	1, 2, 3
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	propane	25-50	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	3
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	butane	25-50	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	1, 3, 4

Notes

- 1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 2 Note S: This substance may not require a label according to Article 17 (see Section 1.3 of Annex I) (Table 3).
- 3 Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.)
Press. Gas (Liq.)
Press. Gas (Ref. Liq.)
Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- 4 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

In all cases of doubt, or when you feel unwell, seek medical advice and show this safety data sheet to the physician. In case of life-threatening conditions, perform resuscitation. Place unconscious person in stable position, keep calm and warm, do not give anything by mouth. Avoid cooling. Do not induce vomiting. Avoid inhalation in case of spontaneous vomiting vomiting.

If inhaled

Leave the contaminated area, rinse the mouth with water, breathe in fresh air. Seek medical attention if breathing difficulties occur.

If on skin

Wash skin with soap and water. If clothing is contaminated, remove clothing. Seek medical attention if irritation develops. In case of frostbite, warm up slowly, cover with a clean cloth, seek medical attention. If a burn burns, cool the burn with cold water and cover with a clean cloth.

If in eyes

If the affected person has contact lenses, remove them. Flush eyes wide open from the inner corner of the eye to the outside with plenty of clean, lukewarm water, especially under the eyelids. Seek medical attention if necessary.

If swallowed

In the case of an aerosol product, ingestion is very unlikely. Do not induce vomiting, rinse mouth with water (only if the person is conscious).

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

If inhaled

Inhalation of the aerosol may cause mild respiratory irritation.

If on skin

Skin contact may cause hypothermia or frostbite.

If in eyes

not available

If swallowed

not available

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

Immediate medical attention is not required during normal use of the mixture. Required only if symptoms reach a certain level, as indicated in paragraphs 4.1 and 4.2; is symptomatic.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Multipurpose powders, CO₂, foam, water mist.

Unsuitable extinguishing media

Full stream of water. The water can only be used to cool the packaging near the fire.

5.2. Special hazards arising from the substance or mixture

Extremely flammable mixture. At elevated temperatures, the aerosol can may be pressurized and torn.

5.3. Advice for firefighters

Self-contained breathing apparatus and non-combustible emergency suit. Use non-sparking tools. Cool containers exposed to fire with water spray or foam. Burning residues and post-intervention water should be disposed of as hazardous waste.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, do not breathe aerosol. Eliminate possible sources of ignition, do not smoke, do not expose to direct sunlight. Use non-sparking tools, avoid electrostatic charge. Avoid contact with skin and eyes - use personal protective equipment.

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6.2. Environmental precautions

The mixture is volatile and has no effect on the aquatic environment. Do not allow to enter drains, soil, surface or ground water.

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation. Wash contaminated area with water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation of the work area. Avoid contact with open flames and other sources of ignition. Protect from direct sunlight. Use non-sparking tools. Take precautionary measures against static discharges. Avoid the formation of gases and vapors in flammable or explosive concentrations and concentrations exceeding the maximum permissible concentrations (NPK-P) for the working atmosphere. Protect eyes and skin, do not breathe aerosol, use personal protective equipment according to dept. 8. Observe the applicable health and safety legislation. Follow the rules

hygiene work with chemicals, do not eat, drink or smoke while working. Wash hands with warm soap and water before breaks, meals and after work.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers in cool, dry and well-ventilated places. Protect from temperatures exceeding 50 ° C. Store away from heat sources, protect from direct sunlight, do not smoke. Store away from food, drink and animal feeding stuffs. Store separately as flammable. Observe the general regulations for storage of pressure vessels. Follow the instructions on the label.

Content	Packaging type	Material of package
500 ml	aerosol can	FE

Storage class 2B - Aerosols
 Storage temperature max. 50 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ensure compliance with Government Regulation 361/2007 Coll., Which lays down the conditions for health protection at work, as amended, and fulfill the obligations contained therein.

Czech Republic

According to the supplier's safety data sheet

Substance name (component)	Type	Value
butane (CAS: 106-97-8)	PEL	1810 mg/m ³
	NPK-P	1450 mg/m ³

Czech Republic

Government Regulation 330/2023 Coll.

Substance name (component)	Type	Value
Propane butane (LPG form) (CAS: 106-97-8)	PEL	1800 mg/m ³
	NPK-P	4000 mg/m ³

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8.2. Exposure controls

Ensure adequate ventilation, or workspace extraction. In case of exceeding the NPK-P, use suitable respiratory protection. Avoid contact with skin and eyes, do not inhale aerosol. Observe hygienic measures when working with chemicals. Do not eat or drink while working and don't smoke. Wash hands with lukewarm soap and water before breaks, meals and after work. Adapt personal protective equipment to the nature of the work.

Eye/face protection

They are not necessary. Wear safety goggles if there is a risk of eye contact.

Skin protection

Not necessary. Wash affected skin, take off contaminated clothing, wash before reuse.

Respiratory protection

Not necessary. Use respiratory protection in case of increased risk of inhalation and insufficient ventilation.

Thermal hazard

When exposed to elevated temperatures, overheating may cause the aerosol container to rupture.

Environmental exposure controls

Observe the usual environmental precautions. Do not allow to enter drains, ground or surface water or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	According to individual specifications
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	179 °C
Flammability	Flammable Class I.
Lower and upper explosion limit	
bottom	1.5 %
upper	10.9 %
Flash point	<0 °C (Not applicable for aerosol)
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	insoluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	3500 hPa at 20 °C
Density and/or relative density	
Density	0.54 g/cm ³
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

VOC content: 100%, EU-VOC 540 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

In normal conditions, the mixture does not show dangerous reactions.

10.2. Chemical stability

The mixture is stable under normal environmental conditions, storage and handling.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, there is a risk of explosion of a pressure can.

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10.4. Conditions to avoid

Temperatures above 50 ° C, contact with open flames, possible sources of ignition and hot surfaces, sparks, static electricity. Avoid exposure to direct sunlight. Avoid formation of concentrations within explosive limits.

10.5. Incompatible materials

Flammable materials, strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions, the mixture does not decompose. Improper combustion or thermal decomposition can produce hazardous combustion products.

SECTION 11: Toxicological information

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

The mixture meets the criteria for classification according to Regulation (EC) No. 1272/2008. The mixture is classified as dangerous according to Regulation (EC) No. 1272/2008, as amended.

Acute toxicity

Based on available data the classification criteria are not met.

butane					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC ₅₀	658 mg/l	4 hours	Rat	

propane					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC ₅₀	658 mg/l	4 hours	Rat	

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.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

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11.2. Information on other hazards

Inhalation of the aerosol may cause mild respiratory irritation. Skin contact may cause hypothermia or frostbite.

SECTION 12: Ecological information

12.1. Toxicity

The ecotoxic effects of the mixture were not assessed. Observe the usual environmental precautions.

12.2. Persistence and degradability

Not determined.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

The mixture and its components are not classified as PBT or vPvB, nor are they listed on the candidate list for Annex XIV of REACH at the date of preparation of the safety data sheet.

12.6. Endocrine disrupting properties

not available

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of as hazardous waste, do not dispose of together with municipal waste. Dispose of at an authorized person or to a hazardous waste collection yard. Dispose of mixture and packaging residues in accordance with local disposal regulations

with waste. Dispose of contaminated packaging as hazardous waste.

Waste management legislation

Waste Act No. 185/2001 Coll. as amended. Act No. 477/2001 Coll., On packaging, as amended.

Waste type code

20 01 13* Solvents

Packaging waste type code

15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

15 01 04 metallic packaging

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

14.5. Environmental hazards

No.

14.6. Special precautions for user

Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

14.7. Maritime transport in bulk according to IMO instruments

Can not be used.

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Additional information

Hazard identification No.
UN number
Classification code
Safety signs



5F
2.1



Road transport - ADR

Special provisions 190, 327, 344, 625
Limited quantities 1 L
Excepted quantities E0

Packaging

Packing instructions P207, LP200
Special packing provisions PP87, RR6, L2
Mixed packing provisions MP9
Transport category 2
Tunnel restriction code (D)

Special provision for packages

V14
loading, unloading and handling operation CV9, CV12
S2

Railway transport - RID

Special provisions 190, 327, 344, 625
Excepted quantities E0

Packaging

Packing instructions P207, LP200
Special packing provisions PP87, RR6, L2
Mixed packing provisions MP9
Transport category 0

Special provision for packages

W14
loading, unloading and handling CW9, CW12

Air transport - ICAO/IATA

Packaging instructions for limited amount Y203
Packaging instructions passenger 203
Cargo packaging instructions 203

Marine transport - IMDG

EmS (emergency plan) F-D, S-U
MFAG 620

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SECTION 15: Regulatory information

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

Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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, as amended. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Commission Delegated Regulation (EU) 2021/849 of 11 March 2021 amending, for the purposes of adapting to technical and scientific progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals.

15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

More information

This information only indicates the basic regulations listed in this Safety Data Sheet. Please note the possible existence of additional regulations supplementing these Regulations. We refer to all applicable national, international and local regulations and regulations.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.

Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods

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IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
NPK	Maximum admissible concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
ppm	Parts per million
Press. Gas (Comp.)	Gas under pressure: compressed gas
Press. Gas (Diss.)	Gas under pressure: dissolved gas
Press. Gas (Liq.)	Gas under pressure: liquefied gas
Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Aerosol	Aerosol
Flam. Gas	Flammable gas
Press. Gas	Gases under pressure

Training guidelines

According to § 103 and § 104 of Act No. 262/2006 Coll., The Labor Code, as amended. Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

Information about data sources used to compile the Safety Data Sheet

Manufacturer data and toxicological databases.

The changes (which information has been added, deleted or modified)

Adaptation of BL updated Annex II of the REACH Regulation as amended by Commission Regulation (EU) 2020/878.

Statement

The safety data sheet contains the data needed to ensure safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can not be considered as a guarantee of the suitability and usability of the product for a specific application. The user is responsible for the treatment under existing laws and regulations.