

SAFETY DATA SHEET

HFC-free air duster

Safety data sheet drawn up in accordance with Annex II
to Commission Regulation (EC) 2020/878 of 18 June 2020.

Date of previous version: 25.01.2022 r.

Update date: 21.03.2023 r.

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

1.1 Product identifier

Product name: **HFC-free air duster**

Product no.: 99748, 99749

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

Uses identified:

Maintenance of computers and electronic devices.

Uses advised against:

All uses other than the above.

1.3 Details of the supplier of the safety data sheet:

Supplier

Fellowes Benelux B.V.

Gesworenhoeckseweg 3a

5047 TM Tilburg

Netherlands

Tel. +31 13 458 0500

Fax. : +31 12 458 0501

Website: fellowes.com

Distributor in Poland:

Fellowes Polska SA

94 Bandurskiego Street

05-270 Marki

Tel.

Fax +48 22 481 96 15

Person responsible for the safety data sheet: fellowespolska@fellowes.pl

1.4 Emergency telephone number:

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification of the mixture according to the criteria of Regulation (EC) No 1272/2008:

Hazards due to physical and chemical properties:

Aerosol 1; H222

H229

Health risks.

Not applicable

Environmental hazards:

Not applicable.

2.2 Label elements

Pictogram



Warning word

Danger

H-phrases indicating the type of hazard:

H222 - Extremely flammable aerosol

H229 - Pressurised container: Heating may cause an explosion

P-phrases indicating precautions:

P101 - If medical advice is required, show the container or label.

P102 - Keep out of the reach of children.

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.

P211 - Do not spray on an open flame or other source of ignition.

P251 - Do not pierce or burn, even after use.

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

2.3 Other risks

The mixture does not contain substances of very high concern SVHC $\geq 0.1\%$, present on the list published by the European Chemicals Agency.

The mixture does not contain substances with endocrine disrupting properties in accordance with Regulation (EU) 2017/2100 or (EU) 2018/605.

The mixture does not contain substances meeting the criteria for PBT or vPvB substances according to Annex XIII of Regulation (EC) No 1907/2006 (REACH).

Deliberate misuse of the product by concentrating it and inhaling its vapours can prove harmful or fatal in its consequences.

Rapid evaporation of the liquid can cause frostbite.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Name	Content	CAS No.	EC No.	Index number/registration number	Classification according to EC 1272/2008
BUTANE (*)	25 \leq x < 50	106-97-8	203-448-7	601-004-00-0/ 01-2119474691-32-XXXX	Flam Gas 1; H220 Press. Gas, H280 Note C, U
PROPAN (*)	25 \leq x < 50	74-98-6	200-827-9	601-003-00-5/ 01-2119486944-21-XXXX	Flam Gas 1; H220 Press. Gas, H280 Note U

(*)For substances, maximum occupational exposure limit values have been set at national level. In the working environment have been set at national level.

See section 16 of the safety data sheet for the full text of the classification, including the meaning of the H-phrases used and the hazard classes, categories and codes.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General recommendations:

If any symptoms persist, seek medical attention. Do not give anything by mouth to an unconscious person.

Inhalation

Remove the victim from the danger zone immediately and provide fresh air. In case of respiratory arrest apply artificial respiration. Call a doctor immediately.

Eye contact

With eyelids rolled up, wash eyes with plenty of clean running water (flush, for at least 5 - 15 minutes). In the meantime, remove contact lenses, if any and they can be easily removed. Consult a doctor or ophthalmologist if any discomfort persists (e.g. frostbite in the eye).

Skin contact

In case of frostbite, get medical attention immediately. Dress wounds only with sterile dressings. Do not use ointments or powders.

Swallowing

Seek medical attention. Show product label. Gaseous product.

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

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Effects of acute exposure:

The product is not classified as hazardous under acute exposure conditions. See section 11.

Effects of chronic exposure:

The product is not classified as hazardous under chronic exposure conditions. See section 11.

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

General recommendations: If you feel unwell, seek medical advice immediately. Show the product label.

Advice to doctor: No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing agents

Fight small fires with chemical powders, carbon dioxide.

Cool containers at risk of fire with water spray from a safe distance.

Suitable extinguishing media:

Water spray, water mist.

AFFF-infused water.

Foam.

Universal powder ABC, BC.

Carbon dioxide (CO₂)

Unsuitable extinguishing media:

Do not use strong jets of water.

5.2. Special hazards associated with the substance or mixture:

Thick, black smoke is produced during combustion. Do not inhale the fumes produced during a fire. Carbon monoxide and carbon dioxide may be produced.

If the product comes into contact with fire or high temperatures, pressure may build up and the container may burst. Bursting aerosol containers can be ejected from the fire at high speed.

In the event of fire, evacuate and isolate the room immediately. Do not take any action that would put anyone at risk unless you are properly trained.

Remove containers from the scene of the fire if this can be done safely. Keep containers in contact with the fire cool by spraying them with water from a safe distance.

5.3 Information for the fire brigade

Depending on the severity of the fire, wear self-contained breathing apparatus with an independent air source and protective equipment (protective gear). Do not allow used extinguishing agents to enter drains, surface or ground water. Collect and dispose of used extinguishing agents in accordance with applicable regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-assistance personnel

Prohibit unauthorised access to the site of contamination.

The mixture contains organic solvents. Eliminate ignition source and ventilate the room.

For those providing assistance

Wear recommended personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow product to enter drains, ditches or watercourses. Inform respective authorities in case of environmental pollution. Evacuate room. Stop leak. Eliminate all sources of ignition.

6.3. Methods and material for containment and cleaning up

No data available.

6.4 References to other sections

For product handling, see section 7.

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For protective equipment and clothing, see section 8.

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wash hands each time after handling the substance.

Ensure adequate ventilation, especially in confined spaces.

Observe the precautionary measures specified on the label and safety regulations in an industrial environment. Do not inhale aerosol. Keep opened packages carefully closed and store in an upright position. Do not smoke, eat or drink in rooms where the mixture is used.

Information on fire and explosion protection:

Use only with adequate ventilation.

Vapours are heavier than air. They can spread low to the ground and form explosive mixtures on contact with air.

Prevent the formation of gases and vapours in inflammable or explosive concentrations and concentrations exceeding the maximum permissible concentrations for the working atmosphere.

Do not spray towards a flame or heated materials.

Do not puncture or burn the containers, even after use.

This mixture may only be used where there are no open sources of fire or other sources of ignition. Electrical equipment must have the appropriate protection class.

Keep packages tightly closed and keep away from heat, sparks and flame.

Do not use tools that produce sparks. Do not smoke.

Secure against unauthorised access.

7.2 Conditions for safe storage, including any incompatibilities.

Keep out of the reach of children.

Keep away from sources of ignition - no smoking.

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

The floor must be impermeable and form a collection pit so that, in the event of an accidental spillage, the liquid cannot escape beyond this area.

Pressure packaging: protect from sunlight and heat above 50°C.

Store at temperatures above freezing, in a dry and well-ventilated place.

Always store in packaging made of the same material as the original.

7.3. Specific end use(s)

No information on specific end uses.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

8.1 Control parameters

The product contains constituents with the Polish defined MAK values in the air of the working environment.

Butane (CAS: 106-97-8)

WEL - 1900 mg/m³; WLS - 3000 mg/m³; NDSP - not specified

Propane (CAS: 74-98-6)

WEL - 1800 mg/m³; WEL - not specified; NDSP - not specified.

Concentration limits for substances - components of the product in biological material: Not specified

DNEL values of the substances - components of the product under acute and chronic exposure conditions: Not determined.

DNEL - Derived No-Effect Level - Estimated no-effect level of exposure

PNEC values of the substances - components of the product for the aquatic environment and biological sewage treatment plants: Not determined.

PNEC - Predicted No-Effect Concentration - The estimated magnitude of the concentration at which no harmful effects are found.

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8.2. Exposure controls

8.2.1. Appropriate technical control measures

The personal protective equipment used should be clean and maintained in good condition.

Keep personal protective equipment in a clean place, away from the working area.

Do not eat, drink or smoke when using. Remove contaminated clothing and wash it before reuse. Ensure proper ventilation, especially in enclosed areas.

8.2.2. Individual protection measures such as personal protective equipment

Respiratory protection:

Use a gas and vapour filter (combination filter) according to EN-14387: A1 (brown).

Do not inhale sprayed liquid. Use only with adequate ventilation.

Eye protection:

Avoid contact with eyes. Wear eye protection designed to prevent splashing of liquids. Wear safety goggles complying with EN 166 before each use.

Do not spray the product towards the eyes.

Hand skin protection:



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

Recommended glove types:

Nitrile rubber (butadiene/acrylonitrile copolymer (NBR));

PVA (polyvinyl alcohol).

Wash hands after product contact with skin. Avoid chronic or repeated skin contact.

The protective properties of gloves depend not only on the type of material they are made of. The duration of the protective effect can vary from one glove manufacturer to another. For many substances, it is not possible to accurately estimate the protective effect time of the glove. Taking into account the glove specifications given by the manufacturer, it has to be observed during the application whether the gloves still retain their protective properties. Wash the gloves before taking them off.

Body protection:

Use protective work clothing, which should be washed regularly. Wash all contaminated body parts after contact with the product.

Contact with the product may cause frostbite on the skin. In case of skin contact, wash off with plenty of soap and water.

General recommendations:

Wash hands before and after each work break. Avoid contamination of eyes and skin. Do not inhale vapours and aerosols. Avoid prolonged or repeated skin contamination. Do not eat, drink or smoke while handling the product.

8.2.3. Environmental exposure controls

Emissions from ventilation systems and process equipment should be checked to determine their ability to comply with the requirements of protection laws environment. In some cases, vapour scrubbers, filters or design modifications to process equipment will be needed to reduce emissions to the acceptable level.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties.

(a) State of aggregation: Spray liquid.

(b) Colour: Clear.

(c) Odour: Alcohol.

(d) Melting/freezing point: No data available.

(e) Boiling point or initial boiling point and boiling range: No data available.

(f) Flammability of materials: Extremely flammable.

(g) Lower and upper flammable/explosive concentration limits: Not specified.

(h) Flash point: No data available.

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- (i) Auto-ignition temperature: No data available.
- (j) Decomposition temperature: No data available.
- (k) pH: No data available.
- (l) Kinematic viscosity: No data available.
- (m) Solubility: No data available.
- (n) Partition coefficient n-octanol/water (log ratio value): No data available.
- (o) Vapour pressure: No data available.
- (p) Density and relative density: 0.545 g/cm³.
- (q) Vapour density: No data available
- (r) Particle characteristics: Not applicable.

9.2 Other information

Explosive properties: Not specified.

Oxidising properties: Not specified.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

It does not degrade under conditions of use as recommended.

10.2 Chemical stability

Mixture stable under recommended storage and use conditions (see section 7).

10.3 Possibility of hazardous reactions

When exposed to high temperatures, the mixture may release hazardous decomposition products such as carbon monoxide and dioxide, fumes, nitrogen oxide.

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

10.4 Conditions to avoid

No equipment that generates a flame or has high-temperature metal surfaces (burners, electric arcs, ovens, etc.) may be on the premises.

Avoid:

- Heat;
- flames and hot surfaces;
- temperatures below zero.

Protect from sunlight and high temperatures above 50° C. Keep away from sources of heat and ignition. Store at temperatures above freezing, in a dry and well-ventilated area.

10.5 Incompatible materials

Can react strongly with oxidising agents.

10.6 Hazardous decomposition products

During thermal decomposition the following can be produced: carbon monoxide (CO); carbon dioxide (CO₂).

Under normal conditions of storage and use, hazardous decomposition of the product should not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

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

No data available for the product.

(a) Acute toxicity

Data for Propane (CAS 74-98-6):

Median lethal concentration, LC₅₀, under inhalation exposure conditions: > 10 mg/L

Data for Butane (CAS 106-97-8):

Median lethal concentration, LC₅₀, under inhalation exposure conditions: > 10 mg/L

(b) Skin corrosion/irritation

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

The product is not classified as hazardous in this class.

(c) Serious eye damage/irritation

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

The product is not classified as hazardous in this class.

(d) Respiratory or skin sensitisation

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

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The product is not classified as hazardous in this class.

(e) Germ cell mutagenicity

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

The product is not classified as hazardous in this class.

(f) Carcinogenicity

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

The product is not classified as hazardous in this class.

(g) Reproductive toxicity

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

The product is not classified as hazardous in this class.

The ingredients of the product have no reproductive toxicity.

(h) Specific target organ toxicity - single exposure

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

The product is not classified as hazardous in this class.

(i) Toxic effects on target organs - repeated exposure

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

The product is not classified as hazardous in this class.

(j) Aspiration hazard

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

The product is not classified as hazardous in this class.

Delayed, immediate and chronic effects from short and long-term exposure

Effects of acute exposure:

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

Effects of chronic exposure:

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

11.2 Information on other hazards

The product does not contain endocrine disrupting substances in a concentration of $\geq 0,1$ %.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute aquatic toxicity

No data available for the product. The product is not classified as hazardous to the environment.

Chronic aquatic toxicity

No data available for the product.

Toxicity to microorganisms

No data available for the product.

Toxicity to organisms in the terrestrial environment

No data available for the product.

Toxicity to the atmospheric environment

No data available for the product.

12.2. Persistence and degradability

Butane/isobutane/propane - the mixture is expected to be readily biodegradable.

12.3 Bioaccumulative potential

No data available for the product.

12.4 Mobility in soil

Butane/isobutane/propane: disperses rapidly in air. In air, rapid oxidation occurs by photochemical reaction.

12.5 Results of PBT and vPvB assessment

The mixture does not contain substances meeting the criteria for PBT or vPvB substances according to Annex XIII of Regulation (EC) No 1907/2006 (REACH) in concentrations ≥ 0.1 %.

12.6 Endocrine disrupting properties

The product does not contain endocrine disrupting substances in a concentration of $\geq 0,1$ %.

12.7 Other adverse effects

No further information is available.

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SECTION 13: WASTE TREATMENT

13.1 Waste disposal methods

Do not discharge into drains, sewers, ditches, watercourses. Do not pollute the environment (do not dispose into soil, water). The product and its packaging must be disposed of safely in accordance with applicable regulations.

Product/packaging disposal

Product disposal (product residue, unused product, cured product, packaging empty but not cleaned): preferred disposal by a licensed waste disposal company or specialist waste disposal company. Appropriate containers and waste treatment methods should be used.

Contaminated packaging:

Empty completely. Retain label on container. Transfer to a licensed waste treatment company.

Waste codes:

15 01 10* - Packaging containing residues of or contaminated by dangerous substances

Waste disposal method:

Recycle or dispose of waste in accordance with current legislation, preferably in cooperation with a licensed waste disposal company or firm.

SECTION 14: TRANSPORT INFORMATION

The product is classified as a hazardous material in national and international transport - ADR - Road transport; ADN - Inland waterway transport; RID - Rail transport; IMDG - Maritime transport; IATA - Air transport.

14.1. UN number or ID number: 1950.

14.2 UN proper shipping name:

ADR/RID	IMDG	IATA
Flammable aerosols.	Aerosols.	Aerosols, flammable.

14.3 Transport hazard class(es):

	ADR/RID	IMDG	IATA
Class	2	2.1	2.1
Classification code	5F		
Sticker	2.1		

14.4. Packing group: Not applicable.

14.5. Environmental hazards: Not applicable.

14.6 Special precautions for users:

ADR/RID

Limited Quantities (LQ): 1 L

Special provisions: 190 327 344 625

Excluded Quantities (EQ): E0, cat 2

Tunnel code: D

IMDG

EmS: F-D, S-U

Rules: 63 190 277 327 344 959

Quantities excluded (EQ): E0

IATA

Packaging instructions

Passenger: 203; 75 kg

Y203; 30 kg G

Cargo: 203; 150 kg

Note: A145; A167, A802

Quantities excluded: (EQ): E0

Limited quantities - ICAO/IATA Part 2.7 and ADR and IMDG Chapter 3.4.

Quantities of dangerous goods exempted - ICAO/IATA Part 2.6 and ADR and IMDG Chapter 3.5

14.7 Sea transport in bulk according to IMO instruments: No data available.

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SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific to the substance or mixture

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND 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 (as amended).

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.

COMMISSION DELEGATED REGULATION (EU) 2020/1182 of 19 May 2020 amending, for the purposes of its adaptation to scientific and technical progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

COMMISSION DELEGATED REGULATION (EU) 2021/849 of 11 March 2021 amending, for the purposes of its adaptation to scientific and technical progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

REGULATION (EC) No 1272/2008 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 (as amended).

Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws 2011 No. 63 item 322) - the act has a consolidated text.

GOVERNMENT DECLARATION of 16 January 2009 on the entry into force of the amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (OJ 2009, 27, 162 with subsequent amendments).

Ordinance of the Minister of the Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the working environment, Dz. U. 2018 item 1286 (as amended by Dz. U. 2020 item 61).

Commission Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU on the establishment of 1, 2, 3, 4 and 5 lists of indicative occupational exposure limit values.

Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws 2020, item 10)
Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws 2013, item 888) - the act has a consolidated text (Journal of Laws 2020, item 1114).

Act of 14 December 2012 on waste (Journal of Laws 2013, item 21) - the act has a consolidated text (Journal of Laws 2021, item 779).

15.2 Chemical safety assessment

Safety assessment of the substances - components of the product. Not performed for the substance.

SECTION 16: OTHER INFORMATION

Meaning of the hazard classes, categories and codes listed on the safety data sheet:

Aerosol 1 - Flammable aerosol product, category 1

Press. Gas - Gas under pressure.

Flam. Gas - Flammable gas, category 1.

Meaning of the H-phrases listed on the safety data sheet:

H220 - Extremely flammable gas.

H222 - Absolutely flammable aerosol

H229 - Pressurised container: heating may cause explosion.

H280 - Contains gas under pressure; may explode if heated.

Note C

Some organic substances are marketed either as a specific isomer or as a mixture of several isomers. In this case, the supplier must indicate on the label whether the substance is a specific isomer or a mixture of isomers.

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Note U

When placed on the market, gases must be classified as 'gases under pressure', in one of the groups compressed gases, liquefied gases, chilled liquefied gases or dissolved gases. The group depends on the physical state in which the gas is present and must therefore be determined on a case-by-case basis. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosol products shall not be classified as gases under pressure (see Annex I, Part 2, Section 2.3.2.1, Note 2)".

Meaning of abbreviations used in the charter:

ADR: (L' Accord européen relatif au transport international des marchandises **Dangereuses** par Route) European Convention concerning the International Transport of Dangerous **Goods by Road**.

ADN (European Agreement Concerning The Carriage of Dangerous Goods by Inland Waterways) - Transport by Inland Waterways.

IATA: (The International Air Transport Association). International Air Transport Association.

IMDG: (International Maritime Dangerous Goods). International Maritime Dangerous Goods Code.

PBT - (Substance) Persistent, Bioaccumulative and Toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail) - Regulations concerning the international carriage of dangerous goods by rail.

vPvB - (Substance) Very Persistent and Very Bioaccumulative.

SVHC - (Substances of Very High Concern) - Substances of Very High Concern are substances that pose serious risks to human health and the environment, i.e. PBTs, vPvBs, carcinogens, mutagens, reproductive toxicants and endocrine disruptors.

Attention:

The mixture must not be used for purposes other than those specified in Section 1 without first obtaining written instructions for use.

Reason for update:

Updated safety data sheet drawn up in accordance with Annex II of Commission Regulation (EC) 2020/878 of 18 June 2020.

The safety data sheet was prepared on the basis of the Polish safety data sheet, dated 25.01.2022, provided by the client, taking into account the regulations on chemical substances and mixtures in force in Poland, by the company Eko-Futura Sp. z o.o.

The data contained in the sheet should only be regarded as an aid to safe handling in transport, distribution, use and storage.

The card is not a certificate of product quality.

The information contained in the sheet applies only to the title product and may not be sufficient for this product used in combination with other materials or in unidentified applications.

The user of the product is obliged to comply with all applicable standards and regulations and bears liability arising from the misuse of the information contained in the data sheet or the misuse of the product.

End of the safety data sheet