

SAFETY DATA SHEET

According to Commission Regulation (EU) 2015/830 of 28 May 2015

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

1.1 Product identifier

PRODUCT NAME: GLASS CLEANER

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

Relevant identified uses: Glass (glass surfaces) cleaning agent.

Uses advised against: not specified

1.3 Details of the supplier of the safety data sheet

Supplier:

FX International Sp. z o.o.

Address:

ul. Mikołowska 65, 44-203 Rybnik

tel.:

+48 577 899 066

e-mail address of competent person responsible for the SDS:

biuro@fxprotect.pl

1.4 Emergency telephone number

112 (24-hour)

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification based on the manufacturer's documentation.

Eye Irrit. 2

H319

2.2 Label elements



GHS07

Signal word:

WARNING

Identifier:

NOT APPLICABLE

Hazard statement(s)

H319 Causes serious eye irritation.

Supplemental information on the label

NOT APPLICABLE

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

P337 + P313 If eye irritation persists: Get medical advice.

Supplemental Hazard information (EU):

No specific information.

Contents in accordance with 648/2004/EC Directive:

<5 % anionic surfactants,

<5 % non-ionic surfactants,

<5 % EDTA and salts thereof,

preservatives,

perfumes.

2.3 Other hazards

No information on meeting the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Section 3. Composition/information on ingredients

3.1 Substances

NOT APPLICABLE

3.2 Mixtures

ethanol	
REACH No	01-2119457610-43
Index No	603-002-00-5
EC No	200-578-6
CAS No	64-17-5
Concentration %	<10
Classification according to 1272/2008/EC	Flam. Liq. 2 H225 GHS02 Dgr
	Eye Irrit. 2 H319 GHS07 Wng

Substance with a national exposure limits in the work environment

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alcohols, C12-14, ethoxylated, sulfates, sodium salts				
REACH No	01-2119488639-16			
Index No	NOT APPLICABLE			
EC No	500-234-8			
CAS No	68891-38-3			
Concentration %	<2			
Classification according to 1272/2008/EC	Skin Irrit. 2	H315	GHS07	Wng
	Aquatic Chronic 3	H412	-	-
	Eye Dam. 1	H318	GHS05	Dgr

2-butoxyethanol				
REACH No	01-2119475108-36			
Index No	603-014-00-0			
EC No	203-905-0			
CAS No	111-76-2			
Concentration %	<2			
Classification according to 1272/2008/EC	Acute Tox. 4	H302	GHS07	Wng
	Acute Tox. 4	H312	GHS07	Wng
	Acute Tox. 4	H332	GHS07	Wng
	Eye Irrit. 2	H319	GHS07	Wng
	Skin Irrit. 2	H315	GHS07	Wng

Substance with a national exposure limits in the work environment

propan-2-ol				
REACH No	01-2119457558-25			
Index No	603-117-00-0			
EC No	200-661-7			
CAS No	67-63-0			
Concentration %	<2			
Classification according to 1272/2008/EC	Flam. Liq. 2	H225	GHS02	Dgr
	Eye Irrit. 2	H319	GHS07	Wng
	STOT SE 3	H336	GHS07	Wng

Substance with a national exposure limits in the work environment

EDTA				
REACH No	01-2119486762-27			
Index No	607-428-00-2			
EC No	200-573-9			
CAS No	64-02-8			
Concentration %	<0,1			
Classification according to 1272/2008/EC	Eye Dam. 1	H318	GHS05	Dgr
	Acute Tox. 4	H302	GHS07	Wng
	Acute Tox. 4	H332	GHS07	Wng

1,2-benzisothiazol-3(2H)-one				
REACH No	There is no registration number for this substance because the substance or its use is exempted from the obligation to register in accordance with the article of REACH Regulation 1907/2006/EC, the total annual production does not require registration or registration is planned at a later date.			
Index No	613-088-00-6			
EC No	220-120-9			
CAS No	2634-33-5			
Concentration %	<0,01			
Classification according to 1272/2008/EC	Acute Tox. 4	H302	GHS07	Wng
	Skin Irrit. 2	H315	GHS07	Wng
	Skin Sens. 1	H317	GHS07	Wng
	Eye Dam. 1	H318	GHS05	Dgr
	Aquatic Acute 1	H400	GHS09	Wng M=1

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2-methyl-2H-isothiazol-3-one	
REACH No	There is no registration number for this substance because the substance or its use is exempted from the obligation to register in accordance with the article of REACH Regulation 1907/2006/EC, the total annual production does not require registration or registration is planned at a later date.
Index No	NOT APPLICABLE
EC No	220-239-6
CAS No	2682-20-4
Concentration %	<0,01
Classification according to 1272/2008/EC	Acute Tox. 3 H301 GHS08 Dgr Acute Tox. 2 H330 GHS08 Dgr Skin Corr. 1B H314 GHS05 Dgr Skin Sens. 1A H317 GHS07 Wng Aquatic Aqute 1 H400 (M=10) GHS09 Wng

Components not classified:

Name:	CAS No:	EC No:	Content [%]
-	-	-	-

For full text of H-statements: see SECTION 16.

Section 4. First aid measures

4.1 Description of first aid measures

General notes

Do not distribute anything orally to an unconscious person. In case of any symptoms occur, call the doctor immediately or take the victim to hospital; show the packaging label or MSDS. If not breathing give artificial respiration immediately.

Inhalation

Remove to fresh air. Keep the affected person warm and calm. If symptoms persist, call a physician. In case of difficulty in breathing, administer oxygen.

Skin contact

Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If symptoms persist, call a physician.

Eye contact

Rinse eyes with plenty of water (if possible with eye wash) for several minutes (with eyelid opened), avoid strong water jet due to risk of corneal damage. Remove contact lenses during washing. Immediate consult ophthalmologist.

Note: People exposed to eye contamination should be advised on the necessity and methods of flushing.

Ingestion

Do not induce vomiting unless otherwise advised by medical staff. If the victim is lying on his back, face him down. Rinse mouth with water and then give a large amount of water to drink. Immediately consult a doctor, if possible, show the label or MSDS.

Protection of first-aiders:

Do not take any action that would harm anyone unless you are properly trained. Always use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact irritation, redness, tearing, burning, conjunctivitis

Inhalation No specific information

Skin contact itching, local redness

Ingestion nausea, vomiting, diarrhea

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

Seek medical advice in case of accident or malaise. Do not induce vomiting or give anything by mouth to an unconscious person. Show the safety data sheet or label / package to the medical staff providing the assistance. Helpers under an unknown concentration of vapors / mist should be provided with adequate respiratory protection.

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Non-flammable liquid. Adjust extinguishing agent to materials in the immediate vicinity. May use CO₂, powder, foam resistant to alcohol, water spray or water mist.

Unsuitable extinguishing media water jets

5.2 Special hazards arising from the substance or mixture

Produces suffocating and toxic fumes on combustion containing carbon oxides, nitrogen oxides. Inhalation of combustion products leads to serious health risks.

5.3 Advice for firefighters

Follow the procedures for extinguishing fires of chemicals. In case of fire involving large quantities of product, all persons should be removed / evacuated from the danger area.

Closed containers exposed to fire or high temperature to be cooled down with water spray from a safe distance, if possible, and safely remove them from the hazard area. Do not allow fire extinguishing sewerage to enter sewage system and water bodies.

Dispose of effluent and fire residue in accordance with local regulations.

Persons involved in firefighting should be trained, equipped with self-contained breathing apparatus and full protective clothing.

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Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes, skin and clothing. Provide ventilation. Avoid breathing vapors or mists.

6.2 Environmental precautions

Eliminate or reduce the release of the product (reduce the liquid flow, seal, put damaged container in an emergency container), if possible and safe to do so. Do not let the product enter drains, water and soil. Reduce the spread of the spill. Inform appropriate health and safety services, rescue teams, environment administration and authorities.

6.3 Methods and material for containment and cleaning up

Place the damaged packaging in the replacement packaging. Small spills put in a closed, labeled container for disposal. Dispose of in accordance with local regulations. Scrape with a shovel and wash contaminated surface with water. If necessary, to remove product or contaminated product absorbent material, enlist the help of specialized companies engaged in transportation and elimination of waste.

6.4 Reference to other sections

Refer to Section 8 for appropriate personal protective equipment. For disposal information, see section 13. Refer to Section 7 for precautionary measures.

Section 7. Handling and storage

7.1 Precautions for safe handling

Do not inhale vapors/mists. Avoid contact with skin and eyes. Provide adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

- Pay attention to warnings on the label.
- Store only in certified, original, properly labeled, sealed packaging.
- Prohibit access to unauthorized persons.
- Open containers close carefully and hold upright.
- Store on a hard surface.
- Store in a dry, cool, well-ventilated area.
- Keep away from strong oxidants, strong alkalis, and strong acids.
- Do not release to drains, surface or ground water (this also includes empty containers).
- Recommended storage temp. 5-25 °C.

7.3 Specific end use(s)

Application method according to information provided by the manufacturer or distributor.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Legal basis:

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (Text with EEA relevance)

CAS	Factor	Limit values			
		TWA		STEL	
		mg/m ³	ppm	mg/m ³	ppm
64-17-5	ethanol United Kingdom	1920	1000		
111-76-2	2-butoxyethanol European Union	98	20	246	50
67-63-0	isopropyl alcohol United Kingdom	999	400	1250	500

DNEL

ethanol

DNEL workers	long-term exposure	skin	(systemic effect)	343	mg/kg m.c./d
DNEL workers	long-term exposure	inhalation	(local effect)	950	mg/m ³
DNEL workers	short-term exposure	inhalation	(local effect)	1900	mg/m ³
DNEL workers	long-term exposure	skin	(systemic effect)	206	mg/kg m.c./d
DNEL workers	long-term exposure	inhalation	(systemic effect)	114	mg/m ³
DNEL workers	short-term exposure	inhalation	(local effect)	950	mg/m ³
DNEL workers	long-term exposure	ingestion	(systemic effect)	87	mg/kg m.c./d

PNEC

ethanol

PNEC sea water	0,79	mg/l
PNEC fresh water	0,96	mg/l
PNEC sea water sediments	2,9	mg/kg
PNEC fresh water sediments	3,6	mg/kg
PNEC soil	0,63	mg/kg
PNEC air	-	mg/l
PNEC microorganisms during wastewater treatment	-	mg/kg

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8.2 Exposure controls

Observe general safety and hygiene rules. Do not eat, drink or smoke during product handling. Wash hands before meals and after work. Wash contaminated clothing before reuse. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and aerosols. Provide effective local ventilation in workstations, and general ventilation.

Respiratory protection:

In case of insufficient ventilation, wear gas mask with filter A P2 or AX (EN 14387) type, absorber colour white or brown or self-contained breathing apparatus.

Skin protection:

Protective clothing (cotton or synthetic) consisting of neck buttoned jackets and cuffs, lined pants. Oil-resistant safety shoes, anti-slip. In order to protect exposed skin it is recommended to use moisturizing creams, but they should not be used immediately after exposure.

Hand protection:

Wear protective gloves impermeable and resistant to the product (tested to EN374). It is recommended to change gloves regularly and replace them immediately if you notice any signs of wear or damage (tearing, puncture) or changes in appearance (colour, elasticity, shape).

Recommended material: latex, nitrile.

Thickness: 0,4mm

Permeation time: ≥480min

Eye and face protection:

In case of prolonged exposure or splashes of liquid hazard, wear safety sealed goggles according to EN 166. It is recommended to equip the workplace in a water shower for rinsing eyes.

Thermal hazards:

Heating can release hazardous gases. Flame or intense heat may cause violent rupture.

Environmental exposure controls:

Should not be released into the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Parameter	Value
Appearance (20°C)	Liquid, turquoise
Odour	Characteristic
Odour threshold	Not determined
pH	9,5-10,5
Melting point/freezing point (°C)	Not determined
Initial boiling point and boiling range (°C)	Not determined
Flash point (°C)	Not applicable – non-flammable liquid
Evaporation rate	Not determined
Flammability (solids, gases)	Not applicable – liquid
Flammability or explosive limits [% v/v]: upper lower	Not applicable – does not create an explosive atmosphere
Vapour pressure (20°C, mmHg)	Not determined
Vapour density (air = 1)	Not determined
Density (20°C, g/cm ³)	Not determined
Solubility	Soluble in water
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
	Not determined
Viscosity kinematic (mm ² /s, 40°C) dynamic (mPa·s, 25°C)	Not determined
Explosive properties	Not applicable – does not create an explosive atmosphere
Oxidising properties	Not applicable

9.2 Other information

Relative density : 1,01 (water = 1)

Section 10. Stability and Reactivity

10.1 Reactivity

Under recommended storage and handling conditions, the product is not reactive.

10.2 Chemical stability

Stable under normal ambient conditions, as well as under expected temperature and pressure during storage and handling.

10.3 Possibility of hazardous reactions

No specific information.

10.4 Conditions to avoid

Extreme temperatures, direct sunlight

10.5 Incompatible materials

Strong oxidants, acids, alkali.

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10.6 Hazardous decomposition products

Carbon monoxide and dioxide, sulfur oxides, phosphorus oxides.

Section 11. Toxicological information

This product has been evaluated following the conventional method specified by the EU Directive and is appropriately classified in terms of toxicity. Details are given in Sections 2 and 3.

11.1 Information on toxicological effects

Acute toxicity

Inhalation:

ethanol : LC50 Rat: 124,7 mg/l
Examination atmosphere: vapour
Exposure time: 4 h
Method: OECD Test Guidelines 403

Acute toxicity (other routes):

Skin corrosion/irritation

Serious eye damage/irritation

ethanol: Species: Rabbit
irritant
Method: OECD Test Guidelines 405

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Aspiration hazard

No specific information

No specific information

No specific information

No specific information

No specific information

No specific information

No specific information

No specific information

No specific information

Section 12. Ecological information

For more information on possible environmental effects, see Section 2.1. (classification). No data for the final product, the evaluation was made based on the individual components.

12.1 Toxicity

Do not allow to enter surface waters, watercourses or sewage system.

Fish:

ethanol: LC50 (Pimephales promelas): 14,2 g/l
Exposure time: 96 h

Aquatic invertebrates

ethanol: EC50 (Ceriodaphnia dubia): 5.012 mg/l
Exposure time: 48 h

Algae

ethanol: ErC50 (Chlorella vulgaris): 675 mg/l
Exposure time i: 96 h
Method: OECD Test Guidelines 201

Aquatic invertebrates (chronic)

ethanol: NOEC: 9,6 mg/l
Exposure time: 9 d
Species: Daphnia magna

12.2 Persistence and degradability

ethanol: Concentration: 10 mg / l
Result: Easily biodegradable.
Biodegradation: approx. 84%

12.3 Bioaccumulative potential

ethanol: Species: Leuciscus idus
Exposure time: 3 d
Bioconcentration Factor (BCF): <10

12.4 Mobility in soil

No specific information.

12.5 Results of PBT and vPvB assessment

No specific information.

12.6 Other adverse effects

Additional ecological information: The product should not enter the water or sewerage system or the soil.

Section 13. Disposal considerations

13.1 Waste treatment methods

Dispose in accordance with all applicable regulations. Dispose of the product and its container in a safe manner. Prevent spillage of product into soil and sewage water.

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Section 14. Transport Information

The product is not subject to regulations on the transport of dangerous goods included in ADR (road), RID (rail), ADN (inland transport), IMDG (sea), ICAO / IATA (air).

	ADR
14.1 UN number	NOT APPLICABLE
14.2 UN proper shipping name	NOT APPLICABLE
14.3 Transport hazard class(es)	NOT APPLICABLE
14.4 Packing group	NOT APPLICABLE
14.5 Environmental hazards	NOT APPLICABLE
14.6 Special precautions for user	See Sections 6, 7 and 8
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Does not apply in the form in which it was delivered.

Section 15. Regulatory information

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

- 1) Regulation (EC) No. 1907/2006 (Annex II Guidelines for the preparation of Safety Data Sheets)
- 2) Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 132/8 29.5.2015, CELEX 32015R0830)
- 3) Commission Regulation (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 133 31.5.2010, CELEX 32010R0453)
- 4) 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 (OJ L 353 31.12.2008, CELEX 32008R1272)
- 5) 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 (OJ L 396 30.12.2006, CELEX 32006R1907)
- 6) Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing some Directives (OJ L 312 22.11.2008, CELEX 32008L0098).
- 7) Regulation (EC) No. 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer (OJ L 286 31 October 2009, CELEX 32009R1005).
- 8) Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods (Text with EEA relevance) (OJ L 260 30.9.2008, CELEX 32008L0068)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances

Category	Threshold value for lower-tier establishment [t]	Threshold value for upper-tier establishment [t]
NOT APPLICABLE	-	-

15.2 Chemical Safety Assessment

No chemical safety assessment has been made for the product.

Section 16. Other information

The data contained herein refer to the product in commercial form.

Relevant H-statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Hazard classes and categories

Acute Tox. 2	Acute toxicity	Category	2
Acute Tox. 3	Acute toxicity	Category	3

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Acute Tox. 4	Acute toxicity	Category 4
Aquatic Acute 1	Hazardous to the Aquatic environment	Category 1
Aquatic Chronic 3	Hazardous to the Aquatic environment	Category 3
Eye Dam. 1	Eye damage / irritation	Category 1
Eye Irrit. 2	Eye damage / irritation	Category 2
Flam. Liq. 2	Flammable liquids	Category 2
Skin Corr. 1B	Skin corrosion / irritation	Category 1B
Skin Irrit. 2	Skin corrosion / irritation	Category 2
Skin Sens. 1	Skin sensitization	Category 1
Skin Sens. 1A	Skin sensitization	Category 1A
STOT SE 3	Specific target organ toxicity (single exposure)	Category 3

Abbreviations and acronyms

ACGIH	Association Advancing Occupational and Environmental Health
ADN	L' Accord européen relatif au transport international des marchandises Dangereuses par voies de navigation intérieures –The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Accord Dangereux Routier - European regulations concerning the international transport of dangerous goods by road
ASTM	American Society for Testing and Materials
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BGW	Biologischer Grenzwert (biological limit value, Germany)
CAS	Chemical Abstract Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or Toxic to Reproduction
CSA	Chemical safety assessment
CSR	Chemical safety report
DIN	Deutsches Institut für Normung - German Institute for Standardisation
DNEL	Derived No-effect Level
EC	European Community
EC50	Median Effective Concentration (required to induce a 50% effect)
ES	Exposure Scenario
EWC	European Waste Catalogue
GHS	Global Harmonized System
IATA	International Air Transport Association
IC50	Median Inhibition Concentration (concentration that reduces the effect by 50%)
IMDG	International Maritime Dangerous Goods Code
ISO	International Organization for Standardization
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
LDLo	Lethal Dose Low
LogPow	octanol/water partition coefficient
VOC	Volatile organic compound
MARPOL 73/78	The International Convention for the Prevention of Pollution from Ships
NIOSH	The U.S. National Institute for Occupational Safety and Health
NOEC	No Observed Effect Concentration
OECD	Organization for Economic Co-operation and Development
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic (chemical)
PEL	Permissible Exposure Limits
PNEC	Predicted No Effect Concentration
REACH	Regulation 1907/2006/EC for Registration, Evaluation, Authorization and Restriction of Chemical
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
RRN	REACH registration number
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure
SVHC	Substances of very high concern
TWA	Time Weighted Average
vPvB	very Persistent very Bioaccumulative (chemical)

The information in this SDS is based on the present state of our knowledge and current law basis. The product is not to be used for purposes other than those specified under Section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

The SDS has been developed by **Pro-Perfekt, biuro@properfekt-msds.pl**

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