


SAFETY DATA SHEET  FABRICS&LEATHER CLEANER	Date of update: 01.12.2020
	VERSION: 1.0/EN
drawn up in accordance with Commission Regulation (EU) No 830/2015 of 28 May 2015 amending 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) (DU European Union series L No 132/8 of 29 May 2015)	

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

1.1 Product identifier

FABRICS&LEATHER CLEANER

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

Identified uses: Washing and laundering product for all surfaces.

SU 21 Consumer applications.

SU 22 Professional applications.

PC35 Washing and cleaning products (including solvent based products)

Uses advised against: Not known

1.2 Details of the supplier of the safety data sheet

CSG Cleaning Solutions Sp. z o.o.

AL. Armii Krajowej 178

PL 43-300 Bielsko-Biała

Tel: 33 47 11 174

www.laav.eu

1.3 Emergency telephone number

Emergency telephone number in Poland (open 8:00 - 16:00): +48 608 47 47 45

112 (emergency telephone), 998 (fire brigade), 999 (ambulance service)

2 SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Hazards due to physicochemical properties:

The mixture is not classified as hazardous in terms of physicochemical properties.

Health hazards

Eye irritation Hazard category 2 [Eye Irrit. 2]

Irritating to eyes (H319)

Environmental hazards:

The mixture is not classified as hazardous to the environment

1.4 Elements of marking

Pictogram



GHS07

Watchword:

NOTE

The names of hazardous ingredients on the label:

Not applicable

Hazard statement(s)

H319 Irritating to eyes


Prevention:

P102 Keep out of the reach of children.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

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

Supplementary labelling elements

Composition according to Regulation 648/2004/EC

Contains: <5% non-ionic surfactants; <5% phosphonates

2.2 **Other hazards**

The mixture does not contain 'Substances of Very High Concern (SVHC) present on the list published by the European Chemicals Agency (ECHA) in accordance with Article 57 of REACH: <http://echa.europa.eu/pl/candidate-list-table>; The mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation (EC) No 1907/2006.

PBT substances (persistent, bioaccumulative and toxic)

vPvB substances (very persistent and very bioaccumulative)

2 SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

2.3 **Substance:**

Not applicable

2.4 **Mixture**

Identification numbers	Chemical name	mass fraction in %	Classification according to Regulation (EC) No 1272/2008		
			Pictogram, signal word codes	Hazard class and category codes	Hazard statement codes
CAS: 54549-24-5 EC (EINECS):259-217-6 Index number: Registration number: 01-2119492545-29-xxxx	Hexyl D-glucoside	<3	GHS05 Dgr	Eye Dam. 1	H318
CAS: 26468-86-0 EC (EINECS): polymer Index number: Registration number:	Oxyethyl 2-ethylhexanol	<3	GHS07 Wng	Skin Irrit.2 . 1	H319
CAS: 111-76-2 EC (EINECS): 203-905-0 Index number: 603-014-00-0 Registration number: 012119475108-36-xxxx	<u>2-butoxyethanol [1,2]</u>	<3	GHS07 Dgr	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Eye Irrit. 2 Skin Irrit. 2	H332 H312 H302 H319 H315
CAS: 103818-93-5 EC (EINECS): Polymer Index number: Registration number: REACH exemption: Polymer.	<u>Alcohols, C9-11, ethoxylated propoxylated</u>	<1	GHS07 Wng	Acute Tox. 4 Eye Irrit. 2	H302 H319

[1] substance with a nationally defined occupational exposure limit value

[2] substance with a European Union level occupational exposure limit value

For the full wording of the H statements, see section 16 of the Safety Data Sheet.

3 SECTION 4: FIRST AID MEASURES


3.1 **Description of first aid measures**

Inhalation: Remove or carry the affected person from the place of exposure, place in a comfortable semi-reclining or sitting position, ensure calmness, protect from loss of heat. Control breathing of the victim - if necessary (no breathing) apply artificial respiration and provide medical assistance.

Skin contact: Remove contaminated clothing and wash skin profusely with lukewarm running water.

Eye contact: Rinse with plenty of cool water, preferably running, for at least 15 minutes. Remove contact lenses. Avoid strong jets of water due to risk of mechanical damage to cornea. If irritation persists, consult an ophthalmologist.

Gastrointestinal tract: Get medical attention. DO NOT induce vomiting without medical advice. Rinse mouth with plenty of water. Call a physician.

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2.1 **Most important symptoms and effects, both acute and delayed**

Skin contact: Prolonged exposure may cause redness, dryness, skin.

Allergies

It is always possible to be allergic to one or more ingredients in a product. A claim of low irritancy does not mean that susceptible individuals will not react adversely. Natural substances are particularly sensitive to seasonal and other changes that may contribute to unforeseen reactions. Unfortunately, often the only remedy in such situations is to determine the exact cause of the reaction (usually with professional medical assistance) and then avoid any future exposure

In contact with eyes: Irritating. Contact causes tearing of the eyes, eye irritation.

After ingestion: Possible nausea, abdominal pain, vomiting.

After inhalation: Inhalation of vapours may cause headaches and dizziness, nausea and vomiting

2.2 **Indication of any immediate medical attention and special treatment needed**

Show the safety data sheet or label/package to the responding medical personnel. In case of eye burn wash conjunctivae with water or saline solution (do not use neutralising solutions), for pain relief - Novocaine drops. Refer to an ophthalmologist. The workplace should be equipped with a shower and eye wash station.

4 SECTION 5: FIRE-FIGHTING MEASURES

5.1 **Extinguishing media**

Non-flammable product

Suitable extinguishing media:

Foam, carbon dioxide, extinguishing powders, water - dispersed currents.

Unsuitable extinguishing media:

Strong, dense water jet - risk of fire spreading.

5.2 **Special hazards arising from the substance or mixture**

During combustion toxic combustion products may be formed, including carbon oxides and other unidentified thermal decomposition products.

5.3 **Information for fire brigades**

Use general protective equipment as required in case of fire. Do not stay in fire area without suitable chemical resistant clothing and breathing apparatus with independent air circulation. Do not allow extinguishing water to enter drains, surface or ground water.

**5 SECTION 6: ACCIDENTAL RELEASE MEASURES
RELEASES TO THE ENVIRONMENT**

2.3 **Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel:

Restrict access of bystanders to the accident area until adequate clean-up operations have been completed. In case of large releases isolate the affected area. Do not inhale vapours. Avoid contact with skin and eyes. Use personal protective equipment. Ensure adequate ventilation.

For those providing assistance:

Ensure that only trained personnel carry out the removal of faults and their consequences. Use personal protective equipment. Remove sources of ignition.

2.4 **Environmental precautions**

If larger quantities are released, take steps to prevent dispersal into the environment. Notify the relevant emergency services


2.5 **Methods and material for containment and cleaning up**

Small spillages: Collect with mop, paper towel and place in waste containers

Large spill: Absorb with liquid-absorbing material (e.g. sand, earth, universal binders, silica, etc.) and place in waste container. Do not mix with other waste. Treat collected material as waste. Clean and well-ventilate the contaminated area.

2.6 **References to other sections**

See Section 8 for information on suitable personal protective equipment. Waste treatment: see section 13.

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6 SECTION 7: HANDLING AND USE OF SUBSTANCES AND MIXTURES STORAGE

2.7 Precautions for safe handling

Work in accordance with safety and hygiene rules. Avoid contact with eyes and skin. Keep containers tightly closed when not in use. Use as directed. Ensure adequate ventilation in areas where the product is stored and used. Do not inhale product vapours. Do not smoke.

2.8 Conditions for safe storage, including any incompatibilities

Store only in a cool and well-ventilated place. Temperature range: 0 to 40°C (Do not store together with food, foodstuffs and animal feeding stuffs. Avoid direct sunlight, heat and ignition sources. Do not store together with incompatible substances (see section 10). Seal packaging that has already been opened and store upright to prevent leakage.

2.9 Specific end use(s)

See section 1.2 of the SDS.

No information on other uses.

7 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

7.1 Control parameters

Poland

EN:2-Butoxyethanol [111-76-2]	
NDS	98 mg/m ³
NDSCh	200 mg/m ³

Legal basis:

Ordinance of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of harmful factors for health in the working environment Dz.U.2018.1286 of 2018.07.03 as amended [Dz.U.2020.61, dated 17.01.2020]

Ordinance of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the workplace (Dz. U. No. 33, item 166, 2011).

Regulation of the Minister of Health of 30 December 2004 on health and safety at work related to the presence of chemical agents in the workplace (Journal of Laws No. 11, item 86,2005).

European Union

EU. 2-Butoxyethanol [111-76-2] Leather			
TWA (8h)		STEL (15 minutes)	
mg/m ³	ppm	mg/m ³	ppm
98	20	246	50

Legal basis:

COMMISSION DIRECTIVE 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC. COMMISSION DIRECTIVE 2004/37/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (Sixth individual Directive within the meaning of Article 16(1) of Council Directive 89/391/EEC) COMMISSION DIRECTIVE 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC. COMMISSION DIRECTIVE (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU

DNEL and PNEC:

2-butoxyethanol (butylglycol) [111-76-2].	
DNEL Employee	
Acute toxicity by inhalation (systemic effects)	663 mg/m ³
Chronic toxicity by inhalation (systemic effects)	98 mg/m ³
Acute dermal toxicity (systemic effects)	89 mg/kg
Chronic skin toxicity (systemic effects)	75 mg/kg
DNEL Consumer	

SAFETY DATA SHEET**LAAV****FABRICS&LEATHER CLEANER**

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Acute oral toxicity (systemic effects)	13.4 mg/kg
Chronic oral toxicity (systemic effects)	3.2 mg/kg
Acute toxicity by inhalation (systemic effects)	426 mg/m ³
Chronic toxicity by inhalation (systemic effects)	49 mg/m ³
Acute dermal toxicity (systemic effects)	44.5 mg/kg
Chronic skin toxicity (systemic effects)	38 mg/kg
PNEC	
PNEC value Fresh water	8.8 mg/dm ³
PNEC value Seawater	8.8 mg/dm ³
PNEC value Sediment (freshwater)	8.14 mg/kg
PNEC value Sediment (marine)	-----
PNEC value Soil	2.8 mg/kg

Recommended monitoring procedures

Procedures of monitoring concentrations of hazardous components in the air and procedures of control of air cleanliness in the workplace should be applied - if they are available and justified for the given position - in accordance with relevant Polish or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to working conditions. Mode, type and frequency of tests and measurements should meet the requirements of the Regulation of the Minister of Health of 2 February 2011. (Journal of Laws 2011 No. 33, item 166).

2.10 Exposure controls**2.10.1 Appropriate technical control measures**

Local and general ventilation is necessary. Use respiratory protection in case of poor ventilation.

2.10.2 Individual protection measures, such as personal protective equipment

Observe the general principles of safety and hygiene. Do not eat, drink or smoke while working. Ensure adequate ventilation. Wash hands thoroughly before breaks and after finishing work. Avoid contact with eyes.

Respiratory protection:

Not required if adequately ventilated. In case of high vapour concentrations, accidents or exceeding of maximum allowable concentrations, use suitable respiratory protective equipment with suitable organic vapour absorber.

Hand protection:

Use chemical resistant protective gloves. Recommended glove material: butyl rubber, nitrile rubber, neoprene.

In case of short-term contact use protective gloves of Performance Level 2 or higher (breakthrough time > 30 minutes). For prolonged contact use protective gloves of Performance Level 6 (breakthrough time > 480 minutes). Wear protective clothing.

The glove material must be impermeable and resistant to the product. The resistance of the glove material has to be tested before use. The penetration time has to be found out by the manufacturer of the gloves and has to be observed. It is recommended to change gloves regularly and to replace them immediately if there are any signs of wear, damage (tears, perforations) or changes in appearance (colour, elasticity, shape).

Skin and body protection:The

use of typical work clothes for the workplace is recommended

Eye protection:

Use tightly fitting safety goggles

The work area should be equipped with a shower and eye wash station.

2.10.3 Environmental exposure controls

Prevent discharge into the municipal water and sewerage system and watercourses. Any emissions from ventilation systems and process equipment should be checked to determine their compliance with the requirements of environmental legislation.

8 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**8.1 Information on basic physical and chemical properties**

Appearance:	Liquid
Colour:	Transparent light straw
Scent:	Characteristic
Odour threshold:	No data available
pH:	11,0
Melting/freezing point:	< 0C°
Initial boiling point	<70C°
Flash point:	Non-flammable

SAFETY DATA SHEET

LAUV

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Evaporation rate:	No data available
Flammable solids, gases:	Not applicable
Upper/lower flammability/explosive limits	Not determined
Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	approx. 1 g/cm
Solubility:	Soluble in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not determined
Decomposition temperature:	No data available
OC viscosity ²⁴ :	Not determined
Explosive properties:	Does not present the possibility of spontaneous explosion
Oxidising properties:	The mixture has no oxidising properties

8.2 Other information

No additional test results.

9 SECTION 10: STABILITY AND REACTIVITY

2.11 Reactivity

Under storage and handling conditions - no reactivity.

2.12 Chemical stability

Product in conditions of correct storage and use (0 to degrees 40Celsius, no prolonged exposure to sunlight) chemically stable

2.13 Possibility of hazardous reactions

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

2.14 Conditions to be avoided

High temperatures, open flame and other sources of ignition.

2.15 Incompatible materials

Strong acids, oxidising substances

2.16 Hazardous decomposition products

Depending on decomposition conditions, complex mixtures of chemicals may be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds. See section 5 for more information.

10 SECTION 11: TOXICOLOGICAL INFORMATION

10.1 Information on toxicological effects

Supplementary information:

Toxicological studies have not been conducted for this product, it has been classified according to the applicable rules for the classification of chemical mixtures. The assessment was made on the basis of the components included in the product. The mixture is classified as hazardous to health. See section 2 Hazards identification

Toxicity of components in the mixture

2-butoxyethanol

LD50 orally (Rat): - >200-2000 mg/kg

LD50 dermal (Rat): >400-2000 mg/kg

LC50 by inhalation (Rat): >2-20mg/l/4h.

Toxicity of the mixture

Acute toxicity estimation of the mixture

ATE MIX orally (mg/kg): >2,000.0 [Estimated value].

ATE MIX Dermal (mg/kg): >2,000.0 [Estimated value].

ATE MIX inhalation (mg/l/4h): >20 [Estimated value].

Based on available data, the classification criteria are not met

The acute toxicity of the mixture (ATEmix) has been calculated on the basis of the appropriate conversion factor given in Table 3.1.2 of Annex I of the CLP Regulation as amended.


Acute toxicity

Based on available data, the classification criteria are not met

Skin corrosion/irritation:

Based on available data, the classification criteria are not met

Serious eye damage/irritation

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Irritant

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met

Specific target organ toxicity - single exposure:

Based on available data, the classification criteria are not met

Specific target organ toxicity - repeated exposure:

Based on available data, the classification criteria are not met

Carcinogenicity

Based on available data, the classification criteria are not met

Germ cell mutagenicity:

Based on available data, the classification criteria are not met

Reproductive toxicity:

Based on available data, the classification criteria are not met

Aspiration hazard:

Based on available data, the classification criteria are not met

Information on likely routes of exposure

Skin contact: Prolonged exposure may cause redness, dryness, skin.

Allergies

It is always possible to be allergic to one or more ingredients in a product. A claim of low irritancy does not mean that susceptible individuals will not react adversely. Natural substances are particularly sensitive to seasonal and other changes that may contribute to unforeseen reactions. Unfortunately, often the only remedy in such situations is to determine the exact cause of the reaction (usually with professional medical assistance) and then avoid any future exposure

On contact with eyes:

Irritating to eyes . Contact causes tearing of the eyes, eye irritation.

After ingestion:

Possible nausea, abdominal pain, vomiting.

After inhalation:

Inhalation of vapours may cause headaches and dizziness, nausea and vomiting

11 SECTION 12: ECOLOGICAL INFORMATION

11.1 Toxicity

Toxicity of the mixture

The product is not classified as hazardous to the environment.

To minimise long-term global pollution, consider:

- Reduce the use of disposable products and packaging.
- Participation in recycling activities
- Do not allow product to reach water, waste water or soil

Toxicity of components in the mixture

2-butoxyethanol

LC50 fish >100 mg/l/96 h (Lepomis macrochirus)

EC50 > 100 mg/l/24h (Daphnia magna)

EC50 algae > 100 mg/l/7 days (Desmodesmus subspicatus)

NOEC (21 d)fish > 100 mg/l, Brachydanio rerio

11.2 Persistence and degradability

The surfactants used in the product meet the requirements of biodegradability in accordance with EC Regulation 648/2004

11.3 Bioaccumulative potential

Not determined for the mixture.

11.4 No data available for the mixture

Soluble in water in any proportion


The mobility of substances depends on their hydrophilic and hydrophobic properties and the abiotic and biotic conditions of the soil, including its structure, climatic conditions, season (in Poland, temperate variable climate) and soil organisms, mainly (bacteria, fungi, algae, invertebrates).

11.5 Results of PBT and vPvB assessment

The substances in the product are not assessed as PBT or vPvB

11.6 Other adverse effects

The mixture is not classified as hazardous to the ozone layer. The possibility of other harmful effects of the individual components of the mixture on the environment (e.g. ability to disrupt the hormonal economy, influence on the increase of global warming) should be considered.

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12 SECTION 13: HANDLING OF WASTE

12.1 Waste disposal methods

Product deletion:

Do not dispose of the product with domestic waste, do not empty into drains. Do not allow to contaminate ground or surface water.

Dispose of in accordance with applicable regulations. Establish the waste code at the place of its production

Legal basis:

Act of 14 December 2012 on waste (Journal of Laws No. 0, item 21) **Consolidated text OJ. 2018 pos. 21**

Regulation of the Minister of Climate of 2 January 2020 on the catalogue of waste **Dz.U. 2020 item 10**

Act of 12 October 2017 on amending the Act on packaging and packaging waste management and some other acts Journal of Laws. 2017 item 2056

13 SECTION 14: TRANSPORT INFORMATION

13.1 UN number

Not applicable

13.2 UN proper shipping name

Not applicable

13.3 Transport hazard class(es)

Not applicable

13.4 Packing group

Not applicable

13.5 Environmental hazards

The product does not present an environmental hazard according to the criteria of the UN Model Regulations.

13.6 Special precautions for users

No special precautions.


2.17 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

14 SECTION 15: REGULATORY INFORMATION

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

1. **1907/2006/EC** Regulation 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 No 1488/94 as well as Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
2. **1272/2008/EC** Regulation 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.
3. **790/2009/EC** Commission Regulation of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.
4. **830/2015/ EC** Commission Regulation of 28 May 2015 amending Regulation (we) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
5. **2008/98/EC** Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives
6. **94/62/EC** European Parliament and Council Directive of 20 December 1994 on packaging and packaging waste.
7. **2015/830/EU** Commission Regulation of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
8. **648/2004/EC** Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).
9. Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws 2011 No. 63 item 322), **consolidated text Journal of Laws 2015 item 1203**
10. Regulation of the Minister of Health of 10 August 2012 on the criteria and classification of substances and their mixtures (Dz.U 2012r No 0; item 1018). **Consolidated text Dz.U. 2015 pos. 208**

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11. Regulation of the Minister of Health of 20 April 2012 on the labelling of packaging of hazardous substances and mixtures and some mixtures (Journal of Laws 2012 No. 0 item 445). **Consolidated text Dz.U. 2015 pos. 450**

14.2 **Chemical safety assessment**

Chemical safety assessment has not been carried out by the supplier. A safety report is not required for the mixture.

15 SECTION 16: OTHER INFORMATION

Other data sources:

IUCLID Data Bank (European Commission - European Chemicals Bureau).

ESIS - European Chemical Substances Information System (European Chemicals Bureau).

Person drawing up the card:	MA Małgorzata Krenke	Based on suppliers' safety data sheets. Calculation method
Card issued by:	"Feed Reach Consulting" www.frc.com.pl	

The above information is based on currently available data on the product and the manufacturer's experience and knowledge in this field. The data contained in the Safety Data Sheet should be considered solely as an aid to safe handling during transport, distribution, use and storage. It is not a certificate of product quality. The information contained in the Safety Data Sheet relates solely to the title product and cannot be valid or sufficient for this product when used in combination with other materials or for different applications. The user of the product is obliged to adhere to all applicable standards and regulations and shall be liable for any damage resulting from improper use of the information contained in the Charter or from improper application of the product


Classification and procedures used to classify the mixture according to Regulation (EC) 1272/2008 [CLP]		
Eye Irrit.2	H319	calculation method
Pursuant to Article 15 of the Act of 25 February 2011 on chemical substances and mixtures (Journal of Laws 2011, No. 63, item 322, as amended), the mixture was reported to the ELDIOM database		

H (hazard) phrases used in section 2 and 3 of the safety data sheet:

H315	Irritating to skin;
Skin Irrit. 2	Skin irritation Hazard category 2
H319	Irritating to eyes.
Eye Irrit. 2	Eye irritation Hazard category 2
H302	Harmful if swallowed
Acute Tox 4	Acute toxicity (oral), hazard category 4
H318	Causes serious eye damage;
Eye Dam 1	Serious eye damage/irritation, hazard category 1
H332	Harmful if inhaled.
Acute Tox4	Acute toxicity, inhalation Hazard category 4
H312	Harmful in contact with skin.
Acute Tox 4	Acute toxicity, dermal Hazard category 4

Explanation of abbreviations and acronyms

NDS	Maximum workplace concentration (TLV-TWA) (OEL-TWA) (PEL-TWA)
NDSch	Transient maximum concentration (TLV-STEL)
NDSP	Maximum Tolerable Concentration (TLV-CL)
LD ₅₀	Dose at which the death of 50% of test animals is observed
LC ₅₀	Concentration at which the death of 50 % of tested animals is observed
ECX	Concentration at which X % reduction in growth or growth rate is observed
CAS number	A numerical designation assigned to a chemical by the US Chemical Abstracts Service (CAS) to identify the substance.
EC/EC number	means the number assigned to a chemical in the European Inventory of Existing Chemical Substances (EINECS) or the number assigned to a substance in the European List of Notified Chemical Substances (ELINCS) or the number in the list of chemicals listed in "No-longer-polymers".

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GHS	Globally Harmonised System of Classification and Labelling of Chemicals (GHS, UN GHS)
UN number	Material identification number according to the ADR-agreement.
ADR	International Convention on the carriage of dangerous goods and loads by road
RID	Regulations concerning the international carriage of dangerous goods by rail).
IMGD	International Dangerous Goods Code.
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
MARPOL	International Convention for the Prevention of Pollution from Ships (MARPOL)
Ems	Emergency response procedures for ships carrying dangerous goods

Training

Before handling the product, the user should be acquainted with the safety rules regarding the handling of chemicals and, in particular, should receive adequate training on the job