

(Legal basis is the REACH (EC) Regulation No. 1907/2006 of the European Parliament and of the Council of December 18th, 2006)

Date of preparation: 04.03.2020

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Revision 1

SECTION 1 IDENTIFICATION OF THE MIXTURE AND IDENTIFICATION OF THE ENTERPRISE

1.1 Identification of the mixture

1.2 Relevant identified uses of the mixture and uses advised against

Alcohol-based disinfecting product for hands and washable surfaces disinfection.
Intended for professional applications in agricultural, food-processing industry and gastronomy.
Use advised against - other than those mentioned above.

1.3 Identification of the company/ undertaking

SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the mixture

Classification according to Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labelling and packaging (CLP)

Health risk

H319 : Skin Irrit. cat.2

H336 : STOT single exp. 3.3

Hazardous properties

H225 : Flamm. Liquids 2

Environmental hazard

Not applicable.

2.2 Label elements

In accordance with directive No. 1272/2008

Hazard pictograms:



Signal word:

DANGER

Hazard statements

H225 : Highly flammable liquid and vapour.

H319 : Causes serious eye irritation.

H336 : May cause drowsiness or dizziness. Safety phrases

P102 : Keep out of reach of children.

P210 : Keep away from heat/sparks/open flames/hot surfaces – No smoking.

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P260 : Do not breathe dust/fume/gas/mist/vapours/spray.

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

P312 : Call a POISON CENTER or doctor/physician, if you feel unwell.

EUH210 : Safety data sheet available on request.

Supplementary information

Contains active substances: Propan-2-ol (CAS No.: 67-63-0; EC No.: 200-661-7): 40 g/100g, Ethanol (CAS: 64-17-5; WE: 200-578-6): 40g/100g, Propan 1-ol (CAS Nr: 71-23-8, WE Nr: 200-746-9): 2g/100g.

This product is free from quaternary amine.

Content of detergents in accordance with regulation 648/2004/EC

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2.3 Other hazards

No data available.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Composition according to regulation No. 1272/2008

Name of the substance	Quantity [% of weight]	CAS number	EC number	Index number	Hazard symbols
Propan 2-ol	40g/100g	67-63-0	200-661-7	603-117-00-0	H225, H319, H336
Ethanol	40g/100g	64-17-5	200-578-6	603-022-00-5	H225
Propan 1-ol	2g/100g	71-23-8	200-746-9	603-003-00-0	H225, H318, H336
Lactic acid	<5%	79-33-4	201-196-2	Nie dotyczy	H315, H318

The full meaning of hazard statement has been given in section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

In case of inhalatory exposure, remove the victim from the hazard area. Ensure peace and protect against heat loss.

Skin contact

If the skin/clothing becomes contaminated, take off the clothing and shoes, wash the contaminated skin with plenty of water for at least 15 minutes.

Eye contact

In case of eye contamination, flush immediately with plenty of water for at least 15 minutes with eyelids wide open. Remove any contact lenses, if possible, continue rinsing.

Consumption

In case of consumption do not induce vomiting. Do not give anything to drink in case perforation of the gastrointestinal tract is suspected. Secure professional medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Means to provide immediate pre-medical help should be available at the workplace. Persons giving first aid should be provided with medical gloves. If the victim is unconscious make sure that the airways are not obstructed and place them on the side in the recovery position. Secure professional medical help.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Fire-extinguishing media

Suitable fire-extinguishing media carbon dioxide (CO₂), powder extinguishers, water aerosol.

5.2 Special hazards arising from the substance or mixture

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Combustion products: Liquid mixture, highly flammable. Carbon oxides and dioxides are formed during the burning process.

Explosive mixtures: Not applicable.

5.3 Advice for firefighters

use standard methods of extinguishing chemical fires. Use water to cool the containers exposed to the impact of high temperature and if possible remove from the hazardous area. Avoid breathing vapours.

Special protective equipment for fire-fighters.

Full protective equipment. Self-contained breathing apparatus. use standard methods of extinguishing chemical fires. Highly flammable liquid.

SECTION 6 PROCEDURE IN CASE OF ACCIDENTAL RELEASE INTO THE ENVIRONMENT**6.1 Personal precautions, protective equipment and emergency procedures**

Persons providing first aid should wear protective clothing, rubber protective gloves, tight-fitting protective goggles and respiratory protection, if necessary. In case of release of the mixture, warn its users and order third parties to leave the contaminated area. Do not breathe emitted vapours.

6.2 Environmental precautions

Prevent pollution of the environment Protect gullies. In case of serious pollution of a watercourse, sewerage system or land, notify the relevant administrative and control authorities and rescue organisations.

6.3 Methods and material for containment and cleaning up

Remove any potential ignition losses. Do not smoke. Secure the damaged packaging Ventilate the area at risk and avoid inhalation of vapours. On the way of the moving liquid, form embankments from sand or earth. Collect the spilled liquid mechanically and using absorbent materials (earth, dry sand, diatomite and vermiculite) Place the collected contaminated absorbent mass in a closed substitute packaging and dispose of it for the purpose of destruction. Rinse the contaminated surface with water Do not use dissolvents and thinners.

6.4 Reference to other sections

See Section 8 for information on appropriate personal protective equipment. Section 13 for additional waste treatment

SECTION 7 HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES**7.1 Precautions for safe handling**

Avoid direct contact of the mixture with eyes. Use the mixture and working solutions only in premises provided with efficient ventilation. Do not mix with other chemicals.

Apply general provisions of the industrial work hygiene.

Do not eat, drink or smoke when using this product. Replace the contaminated clothing. Wash hands thoroughly after handling.

Wash contaminated clothing before reusing. Wash hands and face before breaks at work.

7.2 Conditions for safe storage, including information on any incompatibilities

Keep container tightly closed, only in original packaging of the manufacturer. Store away from low temperatures and direct sources of sunlight, at the temperature between 5 and 35°C. Containers must be provided with original closures and labels. Protect the containers with the product against being accessed by unauthorised persons.

7.3 Specific end use(s) recommendations

Not available.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

The highest permissible concentrations at work

Name of the substance	Identifier	NDS	NDSch	NDSP
Propan-2-ol	Indeks: 603-117-00-0 CAS: 67-63-0 WE: 200-661-7	900mg/m ³	1200mg/m ³	-
Etanol	Indeks: 603-002-00-5 CAS: 64-17-5 WE: 200-578-6	1900 mg/m ³	-	-
Propan 1-ol	Indeks: 603-003-00-0 CAS: 71-23-8 WE: 200-746-9	200/mg/ m ³ / 8 godzin	600mg/ m ³ / 15 minut	-

(pursuant to the Regulation of the Minister of Labour and Social Policy of November 29th, 2002, Journal of Laws No. 217, item 1833, as amended).

8.2 Exposure control

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Relevant measures should comply with the requirements of the Regulation of the Minister of Economy of December 21st, 2005 on the principle demands for agents of individual protection measures (Journal of Laws No. 259, item 2173).

Respiratory protection

Not required

Eye protection

Not required

Hand protection

Not required

Skin protection

Not required

Technical protective measures

Local exhaust ventilation and general ventilation are necessary.

General guidelines

Change the contaminated clothing immediately. Wash your hands and face after working with the substance. Do not eat and drink at the workplace.

Procedures and recommendation for monitoring of the content of hazardous substances in the air: Regulation of the Minister of Health of April 20th, 2005 on testing and measurement of factors hazardous for health at the workplace (Journal of Laws No. 73, item 645) as amended (Journal of Laws from 2007, No. 241, item 1772).

Methodology of measurements

PN-89/Z-01001/06 Terminology for air quality tests at workplaces.

PN Z-04008-7/2002 Rules for air sample collection at the workplace and interpretation of results.

PN-EN-689/2002 Guidelines for inhalation exposure to chemical factors by comparison with permissible values and measurement strategy.

Warning: When the concentration of substances is fixed and known, the selection of individual protection measures must be made taking into account the concentration of substances occurring at the given workplace, exposure time and activities performed by an employee. In an emergency situation, if the concentration of a given substance at the workplace is not known, use protection measures with the highest recommended protection class.

The employee is obliged to ensure the required protective and useful properties of the used individual protection measures as well as working clothing and shoes, and to ensure their appropriate washing, maintenance, repair and disinfection. The recommended preliminary and periodical examinations of employees must be made in accordance with: the Regulation of the Minister of Health and Social Policy of May 30th, 1996 on carrying out medical examinations of employees, scope of preventive health care for employee and medical certificates issued for purposes provided for in the Labour Code (Journal of Laws No. 69/1996, as amended, Journal of Laws No. 37/2001, item 451).

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: colourless
Odour	: alcoholic
Odour threshold	: no data available
pH	: 5.5 (1% solution)
Melting point/freezing point	: - 40°C
Initial boiling point and boiling range	: no data available
Ignition temperature	: not applicable
Evaporation rate	: not applicable
Flammability (solid, gas)	: not applicable
Upper flammability/explosion limit	: not applicable
Lower flammability/explosion limit	: not applicable
Vapour pressure	: no data available

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Vapour density	: no data available
Relative density	: 0.84 g/cm ³ , at 20°C
Solubility	: completely soluble in water
Partition coefficient: n- octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity	: no data available
Explosive properties	: non-explosive
Oxidising properties	: non-oxidising

9.2 Other information

No data available.

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

Possible reaction with strong acids, strong bases, oxidizing agents.

10.2 Chemical stability

Product is stable at normal temperature and pressure conditions.

10.3 Dangerous reactions

No data available.

10.4 Conditions to avoid

Sunlight, low temperatures, high temperatures, heat and fire sources.

10.5 Materials to avoid

Strong acids, alkalis, strong oxidisers

10.6 Hazardous decomposition products

Carbon oxide, carbon dioxide in case of combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Inhalation

Inhalation of liquid vapours may cause drowsiness and dizziness.

11.2 Skin contact

May be irritating to skin.

11.3 Eye contact

Irritant, may cause eye irritation.

11.4 Alimentary system

No data concerning toxic doses and concentrations for the mixture. The literature data regarding the toxicity of substances included in the mixture have been given below:

- Propan 2 -ol:

Acute toxicity - inhalation : LC50 >5 mg/l (presumably)

Acute oral toxicity : LD50 >2000 mg/kg

Acute toxicity - skin : LD50 >2000 mg/kg

-Lactic acid:

Acute oral toxicity :LD50 3730mg/kg (rat)

Acute toxicity - inhalation :LC50 presumably above 5mg/m³

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Acute toxicity - skin	:LD50 > 2000mg/kg (rat)
-Propan 1-ol:	
Acute oral toxicity	:LD50 1870mg/kg (rat)
Acute toxicity - skin	:LD50 5040 mg/kg (rabbit)
Skin irritation	:Moderate skin irritation (rabbit)
Eye irritation	: Moderate irritation (rabbit)
-Ethanol:	
Acute oral toxicity	: LD50 6200-17800 mg/kg (rat)
Acute toxicity - inhalation	: LC50 > 8000mg/l/4h (rat)
Acute toxicity - skin	: LD50 >20000 mg/kg (rat)

SECTION 12	ECOLOGICAL INFORMATION
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12.1 Toxicity

Acute toxicity: No toxicological data regarding the mixture are available.

- Propan 2 -ol:

Acute toxicity to fish : LC50 420 mg/l/96h *Oncorbynohus mykiss*

Acute toxicity to daphnia : EC50 490 mg/l/48h *Daphnia magna*

Acute toxicity to bacteria : LC50 >1000 mg/l/4h Nitrifying bacteria

Substance toxic to aquatic organisms. : LC50 80 mg/l/96h (*Gambusia affinis*)

-Propan 1-ol:

Toxicity for daphnia and other aquatic invertebrates : Very toxic to aquatic life

-Lactic acid:

Acute toxicity to fish : LC50 3000000 do 4000000 ug/l/96h

Acute toxicity to daphnia : EC50 2950000 ug/l/48h

Acute toxicity to shellfish : LC50 2500000ug/l/48h

-Ethanol:

Acute toxicity to fish : LC50 8140 mg/l/48h (*Leuciscus idus*)

Acute toxicity to daphnia : UE50 9268-14221 mg/l/48h (*Daphnia magna*)

Acute toxicity to algae : IC5 5000mg/l/7d(*Scenedesmus quadricauda*)

Acute toxicity to bacteria : UE5 6500mg/l/16h (*Pseudomonas putida*)

12.2 Persistence and degradability

Lactic acid is easy biodegradable and decoposes to water and carbon dioxide.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility

Air: the product is not volatile

Soil : the product may be introduced into soil through rainfall.

Water: the product is freely soluble in water.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

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The literature data regarding the ecotoxicity of substances included in the product were used in accordance with the Reach Regulation based on the cooperation along the supply chain.

SECTION 13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Do not store together with municipal waste. Do not discharge into the water supply system, surface waters and sewage. Mixture residues may not be discharged directly to the wastewater treatment plant without their prior treatment. Dispose of the waste to specialised companies which have relevant authorisations to manage it. Empty containers should be returned to the manufacturer of the mixture, do not remove labels from the packaging.

Waste code:

Waste act of April 27th, 2001 (Journal of Laws No. 62, item 628) as amended. Regulation of the Minister of Environment of September 27th, 2001 on waste catalogue (Journal of Laws No. 112, item 1206). The waste code must be assigned individually at the location where the waste was produced, depending on the industry and the place of use.

07 06 04 Other organic solvents, washing liquids and mother liquors.

13.2 Packaging




After emptying the packaging, rinse them with plenty of water and return to the manufacturer .Packaging with capacity smaller than 10 litres should be disposed of in accordance with the applicable regulations.

Packaging waste code

15 01 02 Plastic packaging.

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

SECTION 14 TRANSPORT INFORMATION

	ADR/RID	IMGD	IATA
14.1. UN number:	1993	1993	1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains isopropanol, ethanol)		
14.3. Transport hazard class(es):	3	3	3
14.4. Warning sticker No.: 3			
14.5. Packing group:	II	II	II
14.6. Environmental hazards:	Not applicable	Not applicable	Not applicable
14.8. Transport in bulk according to Annex II of MARPOL and the IBC Code :	Not applicable	Not applicable	Not applicable

SECTION 15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Act of 25 February 2011 on Chemicals and Their Mixtures (Journal of Laws from the year 2012, No. 63, item 332). Regulation of the Ministry of Health of 20 April 2012 on labelling of packaging of hazardous substances and hazardous mixtures and certain mixtures (Journal of Laws No. 0, item 445) as amended. Regulation of the Minister of Health of 10 August, 2012 on the criteria and method of classification of chemical substances and mixtures (Journal of Laws from the year 2012, No. 0, item 1018) as amended. Regulation of the Minister of Labour and Social Policy of 6 June, 2014 on the highest permissible levels of concentration and intensity of hazardous factors in the work environment (Journal of Laws from the year 2014, item 817). European Agreement concerning the international carriage of Dangerous goods (ADR). Regulation of the Minister of Economy of 21 December, 2005 on the principal requirements for the personal protection measures (Journal of Laws No. 259, item 2173, from the year 2005). Regulation of the Minister of Health of 2 February 2011 on testing and measurement of factors hazardous for health at the workplace (Journal of Laws No. 33, item 2173). Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals 1907/2006/EC (REACH), establishment of the 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 Regulation (EC) No 91/155, 93/67/EEC, 93/105/EEC and 2000/21/EEC, including corrigenda and annexes as well as all following regulations concerning updates of annexes and corrigenda of REACH regulations. 1272/2008 of the European Parliament and of the Council of December 16th, 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. Commission Regulation No. 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No. 1272/2008 of 16 December 2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. Commission Regulation No 453/2010/EC 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). Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents including any subsequent amendments, corrigenda and adjustments. Act of 13 June 2013 on packaging and packaging waste management (Journal of Laws from the year 2013, item 888). Waste Act of 14 December 2012 (Journal of Laws from the year 2013, item 21). Regulation of the Minister of Environment of 9 December, 2014 on waste catalogue (Journal of Laws from the year 2014, item 1923). Commission

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Regulation No 453/2010/EC of 20 May 2010 amending Regulation (EC) No 1907/2006 of 18 December 2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union L133 of 31 May 2010). Regulation of the Minister of Health of 30 December 2004 on occupational health and safety in regard to chemical agents at the workplace Journal of Laws from 2005, No. 11, item 86, as amended). Commission Regulation No 2015/830/EC 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). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, and appealing certain directives. Directive 94/62/EC of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste.

15.2 Chemical safety assessment.

The chemical safety assessment has not been conducted.

SECTION 16 OTHER INFORMATION

The above mentioned information has been developed based on the currently available data that characterise the product, as well as manufacturer's experience and knowledge within this scope. They do not constitute quality description of the product or a guarantee of specific properties. The data shall be used only as an aid in safe proceeding during the product transport, handling, and storage. It does not release the user from the responsibility for improper use of the information above and observing all legal standards applicable in this field. The employer is obliged to notify all employees, who have contact with the product, of hazards and personal protection means specified in this safety data sheet.

Allowed to be marketed based on the Ministry of Health's certificate: 7808/19

List of hazard statements from section 3

- H226 - Flammable liquid and vapour.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H336 - May cause eye irritation.

Adaptation to the presently applicable legal regulations and general update and adaptation to the new data sheet specimen.

Changes in sections 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16

This data sheet supersedes and invalidates all its existing versions.

List of abbreviations:

- Expl. - Explosive material
- Flam. Gas - Flammable gas
- Flam. Aerosol - Flammable aerosol
- Ox. Gas - Oxidising gas
- Press. Gas - Pressurised gas
- Flam. Liq. - Flammable liquid
- Flam. Sol. - Flammable solid
- Self-react. - Self-reactive substance or mixture
- Pyr.liq. - Pyrophoric liquid
- Pyr.liq. - Pyrophoric solid
- Self-heat - Self heating substance or mixture
- Water-react. - Water-reactive substance or mixture which releases flammable gas
- Ox. Liq. - Oxidising liquid
- Ox. Sol. - Oxidising solid
- Org. Perox. - Organic peroxide
- Met. Corr. - Substance or mixture corrosive to metals
- Acute Tox. - Acute toxicity
- Skin Corr. - Skin corrosion
- Skin Corr. - Skin irritation
- Eye Dam. - Causes serious eye damage
- Eye Irrit. - Causes skin irritation
- Resp. Sens. - Respiratory sensitisation
- Skin Sens. - Skin sensitisation
- Muta. - Germ cell mutagenicity
- Carc. - Carcinogenicity
- Repr. - Reproductive toxicity
- STOT SE - Specific target organ toxicity - single exposure
- STOT RE - Specific target organ toxicity - repeated exposure

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Asp. Tox. - Aspiration hazard

Aquatic Acute - hazardous to the aquatic environment, acute hazard

Aquatic Acute - hazardous to the aquatic environment, chronic category

Ozone - Hazardous to the ozone layer

Lact. - Reproductive toxicity, additional category, effect on lactation or via lactation

NDS - Threshold Limit Value - Time-Weighted Average

NDSch - Threshold Limit Value - Short-Term Exposure Limit

NDSP - Threshold Limit Value - Ceiling Limit

vPvB - (Substance) very persistent and very bioaccumulative

PBT - (Substance) persistent, bioaccumulative and toxic

PNEC - Predicted No Effect Concentration (PNEC)

DN(M)EL - Derived No-Effect Level

LD50 - Median lethal dosage, at which the death of 50% of the tested animals is observed

LC50 - Median lethal concentration, at which the death of 50% of the tested animals is observed

ECX - The concentration that results in an X % reduction in growth or speed of growth

LOEC - Lowest observed effect concentration

NOEL - No observed effect level

RID - Regulations concerning the international carriage of dangerous goods by rail

ADR - European Agreement concerning the international carriage of dangerous goods

IMDG - International Maritime Dangerous Goods Code

ICAO/IATA - O International Civil Aviation Organisation/International Air Transport Association ADN - the

European Agreement concerning the international carriage of dangerous goods by inland waterways UVCB -

Substances of unknown or variable composition, complex reaction products or biological materials

Training

Persons taking part in the trading of the hazardous substance should be trained in handling procedures, safety and hygiene. The crew of the vehicle transporting the preparation must be in possession of documents certifying the completed training required by the provisions of the ADR.

Source materials

This safety data sheet has been developed on the basis of the safety data sheets for substances as mixture ingredients supplied by the manufacturer or distributor as well as on the basis of information available on the website of the European Chemicals Bureau - www.ecb.jrc.ec.europa.eu.

Other information

The product described in the safety data sheet should be kept and used in accordance with the good industrial practice and all legal regulations. The information included in the safety data sheet, based on the current knowledge, are aimed at description of the product from the point of view of the legal regulations concerning safety, health and environment protection. They should not be construed as a warranty for any specific properties. The user is responsible for ensuring conditions of safe use of the product and is liable for the effects of improper use of this product.