

**SAFETY DATA SHEET**

Pursuant to Annex of Commission Regulation (EU) 2015/830

	<b>IZODEZON</b>	Date of filling:	04-06-2018
		Last revision date:	19-08-2019
		Issue No.	1

## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

<b>Product identifier</b>	Isodezone
<b>Relevant identified uses of the substance / mixture and uses advised against</b>	<p>Detergent / care product for professional use - isopropanol based disinfectant.</p> <p>Disinfectant for personal hygiene; disinfectant not for direct human use; food area disinfectant (biocide type 1, 2, 4). For professional users only. Hygienic hand disinfection in public facilities and catering establishments; for quick disinfection of small surfaces, equipment, inventory other than medical devices in health care facilities (procedural and dental offices, nursing homes, etc.), public facilities (hairdressing salons, beauty and tattoo shops, etc.) and catering establishments. Cannot be used to treat wounds and damaged skin. Can not contact food directly. Read instruction manual and safety data sheet before use. Authorization Certificate of the biocidal product (10-14 17.5)BSV-15320(A-010204PNO603370-19-264) is valid till 01-08-2024.</p>
<b>Supplier / Manufacturer</b>	UAB Xxxxx, xxxx str. 13, LT-97187 Kretinga, Lithuania, mob. tel .: +370 XXXXxxx , info@xxxxx
<b>E-mail of the person responsible for the safety data sheet</b>	dxxxx@bxxxx.xx

## 2. POTENTIAL HAZARDS

<b>Classification of the substance / mixture and labelling elements</b>	<p>Signal word: Dangerous</p> <p>Hazard class: Flammable liquid, Category 2; Serious eye damage / eye irritation, Category 2; Specific target organ toxicity - single exposure, Category 3.</p> <p>Hazard statements:</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>Precautionary statements:</p> <p>P210 Keep away from heat / sparks / open flames / hot surfaces. - Do not smoke.</p> <p>P233 Keep container tightly closed.</p> <p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue to wash eyes.</p> <p>P337 + P313 If eye irritation persists: Get medical advice / attention.</p> <p>P403 + P235 Store in a well-ventilated place. Store in a cool place.</p>	 GHS02	 GHS07
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P501 Dispose of contents / container in accordance with national regulations.

**Other hazards** Substance / mixture does not meet the criteria for classification as PBT or vPvB; the substances are not on the Candidate List SVHC (Substances of Very High Concern) list at the time of writing the Safety Data Sheet.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Description of the substance / mixture** Solution, a mixture of the following substances with non-dangerous impurities / additives.

**Hazardous ingredients:**

Ser. No.	CAS No.	EC No.	Index No.	Weight percentage, %	Chemical name, <i>registration number</i>	Classification
1.	67-63-0	200-661-7	603-117-00-0	72.0	isopropanol; isopropanol, isopropyl alcohol <i>01-2119457558-25-0000</i>	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
2.	6842-4-85-1	270-325-2	-	0.03	quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides <i>01-2119965180-41-0000</i>	Acute Tox. 4 H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Note: Explanations to hazard classes, phrases and other indications are given in sections 2 and 16.

### 4. FIRST AID MEASURES

**Description of first aid measures:**

First aid information	In all cases of doubt, or when symptoms persist, seek medical attention. If the victim is unconscious, do not give anything to drink or give anything to mouth. If poisoning is suspected or detected, contact the Poison Control and Information Bureau.
Inhalation	In case of inhalation of gas, immediately discontinue contact - remove or remove victim to fresh air and keep at rest. Get medical attention if symptoms of respiratory tract develop. In case of unconsciousness place patient stably in side position for transportation.
Dermal contact	Wash with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before re-use.
Eye contact	Wash eyes with plenty of running water for at least 15 minutes. Remove contact lenses, if possible. Get medical attention immediately.
Ingestion	Do not induce vomiting or give activated charcoal. If unconscious, remove remnants from the mouth, rinse mouth with water, drink plenty of water and seek medical advice immediately.

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

Eye effects are considered to be irritating. Skin contact is considered to be a mild irritant after prolonged and repeated use. Parathyroidism: central nervous system depression, nausea / vomiting, alcoholic beverage poisoning symptoms.

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Inhalation effects: High vapour concentrations may cause short term irritation, respiratory tract, headache, nausea.

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

The workplace must have an eye wash fountain, shower or bath. Also first aid measures, eye wash.

## 5. FIREFIGHTING MEASURES

<b>Extinguishing media</b>	The mixture is flammable. Suitable extinguishing media: water (spray), dry extinguishing powder, alcohol-resistant foam. In the event of fire, extinguishing media must be selected having regard to the properties of the combustible materials around.
<b>Special hazards arising from the substance / mixture</b>	Isopropanol is soluble in water and its solutions are flammable in water. Combustion generates soot, carbon monoxide, carbon dioxide and explosive peroxides may be formed. It is necessary to know the properties of other substances or mixtures used or stored.
<b>Advice for fire-fighters</b>	Wear self contained breathing apparatus and non-flammable fire-fighters clothing in the event of fire. Personal protective equipment shall be selected taking into account the properties of the combustible materials.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation / respiratory protection, skin and eye contact. Do not breathe vapour. Use personal protective equipment as specified in Section 8.
<b>Environmental precautions</b>	Do not discharge spillage into local or rainwater sewage system, surface water bodies or natural environment.
<b>Isolation and cleaning procedures / measures</b>	Collect with liquid-binding material (sand, universal binder). Allow the residue to evaporate. Do not dispose of material in trash or in the original packaging. Dispose of collected material in accordance with instructions. In the event of large spills, inform the rescue service.
<b>Reference to other sections</b>	See sections 8 and 13.

## 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Store in tightly closed original containers in a dry, ventilated place. Do not store together with flammable materials, means. Do not damage the packaging. Do not smoke. Do not use tools that cause sparks. Store at temperatures below -15°C and not above +15°C and away from sources of heat, sunlight.
<b>Conditions for safe storage, including any incompatibilities</b>	For professional use only. Use only in well-ventilated areas, in areas with exhaust ventilation, in strict accordance with the instructions for use. Comply with general rules for handling chemicals. Do not mix with other chemicals. Do not eat, drink or smoke during use. Prevent the creation of airborne concentrations of vapours above the exposure limits. Wear suitable personal protective equipment as specified in Section 8.
<b>Specific end use (s)</b>	For professional use only.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters** (occupational exposure limit values) according to HN 23: 2011:

CAS No.	Title	Maximum allowable concentration
67-63-0	isopropanol; isopropanol, isopropyl alcohol	LTEL = 350 mg/m <sup>3</sup> , 150 ppm STEL = 600 mg/m <sup>3</sup> , 250 ppm

Notes: LTEL – long-term exposure limit, STEL – short-term exposure limit

**DNEL (for employees):**

CAS No.	Title	Exposure
67-63-0	isopropanol; isopropanol, isopropyl alcohol	long-term, systemic, dermal: 888 mg/kg. long-term, systemic, inhalation: 500 mg/m <sup>3</sup>

**DNEL (for citizens):**

CAS No.	Title	Exposure
67-63-0	isopropanol; isopropanol, isopropyl alcohol	long-term, systemic, dermal: 319 mg/kg. long-term, systemic, inhalation: 89 mg/m <sup>3</sup> long-term, systemic, ingestion: 26 mg/kg.

**Exposure control**

Technical measures to prevent exposure                      General, local exhaust ventilation, avoid spillage, soil and sewage, see section 7.

Individual protection measures:

General safety and hygiene measures      Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated, soaked clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes.

Hand and body protection                      Wash skin with water during breaks and / or at the end of work; apply oily skin care products. Non-flammable, antistatic protective work clothing.

Eye / face protection                              Safety glasses (EN 166).

Respiratory protection                            In case of inadequate ventilation, masks or half masks with filter A (colour code - brown) should be used in case of accidents - vapour protection.

Environmental Impact Control                  Avoid spillage. See Sections 6 and 12.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

State of aggregation	Liquid
Colour	Clear
Odour	Characteristic (alcohol)
pH, 100 %, 25°C	7-10
Relative density, g/cm <sup>3</sup> , 20°C	0.83-0.85

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Flash point, °C 18  
(72% aqueous solution of isopropanol)

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Reacts violently with oxidants, strong acids. The rate of degradation depends on temperature, concentration, pH.
<b>Chemical stability</b>	The mixture is stable under normal conditions and under strict conditions of safe use.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known.
<b>Conditions to avoid / incompatible materials</b>	Avoid heat, light, flammable substances / materials, strong mineral acids, oxidizing agents, aluminium at high temperatures.
<b>Hazardous decomposition products</b>	Carbon oxides are released during decomposition. The reaction products also depend on the substances / mixtures involved in the chemical reactions.

**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects**

Acute toxicity	Based on the chemical information it can be argued that the mixture does not fall into the acute toxicity category when ingested by the test animals.  Acute toxicity of the components:  isopropanol: oral (rat): LD50> 2000 mg / kg, dermal (rabbit): LD50> 5000 mg / kg by inhalation (rat): LC50> 20 mg/l / 8 h.  quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides: oral (rat): LD50 344 mg/kg, dermal (rabbit): LD50 3340 mg/kg.
Skin corrosion and/or irritation	May cause skin irritation.
Serious eye damage / eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	The components are non-sensitizing.
Germ cell mutagenicity	Based on the chemical information it can be stated that the mixture is not mutagenic: there is no evidence of mutagenic effects of the components.
Carcinogenicity	Based on the chemical information it can be stated that the mixture has no carcinogenic effect: there is no evidence of carcinogenic effects of the components.
Reproductive toxicity	Based on the chemical information it can be stated that the mixture has no effects on reproduction: no evidence of reproductive toxicity of the components.
STOT (single exposure)	Vapours may cause drowsiness and dizziness.
STOT (multiple exposure)	Not applicable / no data available.

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Danger of aspiration Not applicable / no data available.

Additional toxicological information Exposure depends on the amount of concentration and duration of exposure.

**12. ECOLOGICAL INFORMATION**

<b>Toxicity</b>	Based on the chemical information, the mixture is not considered to be toxic to aquatic organisms. Calculated toxicity of the mixture to fish: LC50 $\geq$ 87 mg / l / 96 h.
<b>Persistence and degradability</b>	Based on the chemical information, the product can be said to be biodegradable. The biodegradability of surfactants (PAMs) in the mixture shall be in accordance with the provisions of Detergent Regulation No. 551/2009.
<b>Bioaccumulative potential</b>	Bioaccumulation is not expected.
<b>Mobility in soil</b>	Soluble in water, dispersed, neutralized. Dilute with water or neutralize before draining into drains or sewers.
<b>Results of PBT and vPvB assessment</b>	Ingredients are not classified as PBT and vPvB substances.
<b>Other adverse effects</b>	Not applicable / no data available.

**13. WASTE HANDLING****Waste handling methods:**

Product Disposal	Dispos in accordance with local waste disposal law. The product decomposes on burning in carbon dioxide and water. Incineration is the recommended method of disposing of the product.
Packaging disposal	Packaging waste must be disposed of in accordance with the Packaging and Packaging Waste Management Act. It is recommended to transfer the washed and dried packages to packaging waste management companies. Package waste codes: 15 01 02 plastic (including PET) packaging; 15 01 10 packaging containing residues of or contaminated by dangerous substances. It is recommended not to burn packages containing product residue.

**14. TRANSPORT INFORMATION**

<b>Classification of transport</b>	Land transport ADR / RID (international / domestic).
<b>UN number</b>	1219
<b>UN proper shipping name</b>	Isopropanol (isopropyl alcohol)
<b>Transport hazard class (es)</b>	3 flammable liquids
<b>Packing group</b>	II
<b>Signs of danger</b>	3
<b>Environmental hazards</b>	-

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**Special precautions for user** Do not damage the packaging.**15. REGULATORY INFORMATION****Safety, health and environmental regulations / legislation specific for the substance / mixture:**

Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactants derogation).

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.

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.

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).

HN 23: 2011 Occupational Exposure Limits for Chemicals. General Requirements for Measurement and Impact Assessment (Approved by Order No V-824 / A1-389 of 1 September 2011 of the Minister of Health and the Minister of Social Security and Labour of the Republic of Lithuania, Official Gazette, 2011, No. 112-5274).

List of Acute Health Disorders Caused by Dangerous Chemicals, Preparations and Biological Substances of the First Aid Measures (Approved by Order No. V-769 of 24 December 2003 of the Minister of Health of the Republic of Lithuania, Official Gazette, 2004, No. 7-157).

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

Packaging and Packaging Waste Management Regulations (Approved by Order of the Minister of the Environment No. 348 of June 27, 2002, Official Gazette, 2002, No. 81-3503, as amended by Official Gazette, 2004 No. 78-2761; 2005 No. 2-23; 2007 No. 6-271; 2010 No. 53-2622, no. 79-4114, no. 91-4863; 2011 No. 28-1353; 2012 No. 84-4419).

Waste Management Regulations (New edition approved by Order No. D1-368 of the Minister of Environment of the Republic of Lithuania of May 3, 2011, Official Gazette, 2011, No. 57-2721).

Regulations on the Provision of Personal Protective Equipment to Employees (Approved by Order No. A1-331 of the Minister of Social Security and Labour of the Republic of Lithuania of 26 November 2007, Official Gazette, 2007, No. 123-5055).

**Chemical safety assessment** Contained substances (isopropanol) have undergone chemical safety assessments.

**16. OTHER INFORMATION**

Explanation of hazard symbols and numerical signs (referred to in section 3):

Flam. Liq. 2 Flammable liquid, Category 2

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Acute Tox. 4	Acute toxicity, Category 4.
Skin Corr. 1B.	Skin corrosion, subcategory 1B.
Eye Dam. 1	Serious eye damage, Category 1.
Eye Irrit. 2	Serious eye irritation, Category 2.
STOT SE 3	Specific target organ toxicity (single exposure), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1.
H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

DNEL	derivative no effect level.
LD50/ LC50	the dose (concentration) of the substance which causes 50% death of the test animals.
NOEC	no observed effect concentration.
PBT	persistent, bioaccumulative and toxic chemicals.
vPvB	very persistent and very bioaccumulative substances.

The data given in this safety data sheet must be available to anyone working on the substance / mixture. The data is based on our current knowledge and are intended to describe the product in terms of safety and health at work and environmental aspects. The information in the safety data sheet will be updated as new data on health and environmental effects of the substance / mixture, preventive measures to reduce or eliminate hazards become available. The information provided in the safety data sheet does not reveal any other specific properties of the substance / mixture.