

according to Regulation (EC) No 1907/2006 (REACH) as amended

## **DE-ZAL**

Creation date 16th April 2020

Revision date Version 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier DE-ZAL
Substance / mixture mixture

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

Mixture's intended use Liquid for hygienic hand disinfection. Bactericidal and

virucidal effects. Permission. 0585 / TP / 2020

Mixture uses advised against

The product should not be used in ways other then those

referred in Section 1.

## 1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name TENZI Sp. z o.o.

Address Skarbimierzyce 20, Dołuje, 72-002

Poland

 VAT Reg No
 PL8512583405

 Phone
 +48 91 3119777

 E-mail
 info@tenzi.pl

 Web address
 www.tenzi.pl

Competent person responsible for the safety data sheet

Name technolog@tenzi.pl

#### 1.4. Emergency telephone number

112 National Health Service (NHS) 111

National poisoning information centre Scotland, NHS 24: 111

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of all classifications and hazard statements is given in the section 16.

## Most serious adverse physico-chemical effects

Flammable liquid and vapour.

### Most serious adverse effects on human health and the environment

Causes serious eye irritation. May cause drowsiness or dizziness.

#### 2.2. Label elements

## **Hazard pictogram**





## Signal word

Warning

## **Hazardous substances**

Isopropanol (active substance)

## **Hazard statements**

H226 Flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.



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### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

#### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25- XXXX	Isopropanol (active substance)	61	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	1
CAS: 18472-51-0 EC: 242-354-0 Registration number: 01-2119946568-22- XXXX	Chlorhexidine digluconate (active substance)	2,2	Eye Dam. 1, H318 Aquatic Acute 1, H400, M=10	

### Notes

1 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and hazard statements is given in the section 16.

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water/shower.

### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

#### If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.



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### 4.2. Most important symptoms and effects, both acute and delayed

#### If inhaled

May cause drowsiness or dizziness.

#### If on skin

Not expected.

## If in eyes

Causes serious eye irritation.

#### If swallowed

Irritation, nausea.

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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

### Unsuitable extinguishing media

Water - full jet.

#### 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

## 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

## 6.4. Reference to other sections

See the Section 7, 8 and 13.



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# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Use only non-sparking tools. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a tightly closed, original plastic container (high-quality polyethylene HDPE). Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor. DO NOT expose the product to sunlight and keep away from heat, frost, sparks, flame and source of ignition.

Material of package

HDPE (2), High-density (linear) polyethylene (Plastics)



**HDPE** 

Storage temperature

min 5 °C, max 35 °C

## The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

## 7.3. Specific end use(s)

not available

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

## **United Kingdom of Great Britain and Northern Ireland**

Substance name (component)	Туре	Time of exposure	Value	Note	Source
	WEL	8 hours	999 mg/m³		
Isopropanol (active substance)		8 hours	400 ppm		EH40/2005 Workplace
(CAS: 67-63-0)	WEL	15 minutes	1250 mg/m³		exposure limits (Third edition, published 2018)
	WEL	15 minutes	500 ppm		



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#### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

### Eye/face protection

It is not needed.

### Skin protection

Contaminated skin should be washed thoroughly.

#### Respiratory protection

It is not needed.

#### Thermal hazard

Not available.

### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance colorless liquid
Physical state liquid at 20°C
color colourless

Odour Characteristic - alcoholic
Odour threshold data not available
PH 7 (undiluted at 20°C)
Melting point/freezing point data not available
Initial boiling point and boiling range data not available

Flash point 23 °C

Evaporation rate data not available Flammability (solid, gas) data not available

Upper/lower flammability or explosive limits

flammability limits
explosive limits
data not available
data not available
Vapour pressure
data not available
Vapour density
Relative density
0.886 g/cm3 (+-) 0.020

Solubility(ies)

solubility in water soluble

solubility in fats data not available
Partition coefficient: n-octanol/water data not available
Auto-ignition temperature data not available
Decomposition temperature data not available
Viscosity data not available
Explosive properties data not available
Oxidising properties data not available

9.2. Other information

Density data not available ignition temperature data not available

Dermatological tests: does not show irritating and sensitizing properties Testing the capacity of sustaining the burning of liquid (ISO 9038: 2005P) - has the ability to sustain burning

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reacts with strong oxidizers and strong acids.

## 10.2. Chemical stability

The product is stable under normal conditions.



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#### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

## 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

## **Acute toxicity**

Based on available data the classification criteria are not met.

#### Chlorhexidine digluconate (active substance)

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	>5000 mg/kg		Rat (Rattus norvegicus)	

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

## Chlorhexidine digluconate (active substance)

Route of exposure	Result	Time of exposure	Species
Oral	Slightly irritating	24 hour	Rabbit

## Serious eye damage/irritation

Causes serious eye irritation.

## Chlorhexidine digluconate (active substance)

Route of exposure	Result	Time of exposure	Species
	Serious eye damage		Rabbit

## Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

## Germ cell mutagenicity

Based on available data the classification criteria are not met.

## Carcinogenicity

Based on available data the classification criteria are not met.

## **Reproductive toxicity**

Based on available data the classification criteria are not met.

## Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.



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#### **Aspiration hazard**

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

### **Acute toxicity**

Data for the mixture are not available.

Chlorhexidine digluconate (active substance)

Parameter	Method	Value	Time of exposure	Species	Environmen t
LC50	OECD 203	10.4 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC50		0.05-0.10 mg/l	48 hour	Daphnia (Daphnia magna)	
EC50		0.011 mg/kg	72 hour	Algae (Desmodesmus subspicatus)	
EC10		3 mg/l	16 hour	Pseudomonas putida	
EC50	OECD 209	25 mg/l	3 hour	R	Activated sludge

## 12.2. Persistence and degradability

## **Biodegradability**

Chlorhexidine digluconate (active substance)

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301A	70 %	10 day		Easily biodegradable

The substance is biodegradable.

## 12.3. Bioaccumulative potential

Chlorhexidine digluconate (active substance)

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Parameter		Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	
BCF		42					

Substance is not bioaccumulative.

## 12.4. Mobility in soil

The product is water soluble and may sink into groundwater systems.

## 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

## 12.6. Other adverse effects

Not available.

## **SECTION 13: Disposal considerations**



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#### 13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

## Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

## Waste type code

07 06 04 other organic solvents, washing liquids and mother liquors \*

## Packaging waste type code

15 01 02 plastic packaging

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

### **SECTION 14: Transport information**

#### 14.1. UN number

UN 1993

#### 14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (isopropanol)

#### 14.3. Transport hazard class(es)

3 Flammable liquids

#### 14.4. Packing group

III - substances presenting low danger

#### 14.5. Environmental hazards

Nο

## 14.6. Special precautions for user

Reference in the Sections 4 to 8.

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

## **Additional information**

Hazard identification No.

UN number

Safety signs

1993

3



## **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.



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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the mixture.

For the following substances, mixtures:

Chlorhexidine digluconate (data for the concentrated ingredient): the manufacturer has performed a chemical safety assessment

Isopropanol (data for the concentrated ingredient): the manufacturer has performed a chemical safety assessment

#### **SECTION 16: Other information**

#### A list of standard risk phrases used in the safety data sheet

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

### Guidelines for safe handling used in the safety data sheet

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P405 Store locked up.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and

mixtures

DNEL Derived no-effect level

EC Identification code for each substance listed in EINECS

EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous

Chemicals

IC50Concentration causing 50% blockadeICAOInternational Civil Aviation OrganizationIMDGInternational Maritime Dangerous Goods

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal concentration of a substance in which it can be expected death of 50% of the

population

LD50 Lethal dose of a substance in which it can be expected death of 50% of the population

LOAEC Lowest observed adverse effect concentration

LOAEL Lowest observed adverse effect level log Kow Octanol-water partition coefficient

MARPOL International Convention for the Prevention of Pollution From Ships

NOAEC No observed adverse effect concentration

NOAEL No observed adverse effect level NOEC No observed effect concentration

NOEL No observed effect level
OEL Occupational Exposure Limits



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PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted no-effect concentration

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN Model

Regulations

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

materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Aquatic Acute Hazardous to the aquatic environment

Eye Dam. Serious eye damage Eye Irrit. Eye irritation Flam. Liq. Flammable liquid

STOT SE Specific target organ toxicity - single exposure

#### **Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

## **Recommended restrictions of use**

not available

## Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### More information

Classification procedure - calculation method.

Classification procedure - based on the results of flash point and sustained burning tests.

Classification procedure - based on the results of dermatological tests.

## Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.