prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union No L 203,

26/06/2020)

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND IDENTIFICATION ENTERPRISES

1.1 Product ID

## CLEANSER IPA CLEANSER IPA PLUS SPRAY

UFI number: Q910-J09X-100T-R451

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

Identified uses: Aerosol product intended for cleaning/washing electronic devices, e.g. mobile phones, optical devices, laser readers, magnetic heads.

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Supplier:

Micro Chip Electronic Barbara Kaczmarczyk ul.

Kochanowskiego 9 40-035 Katowice Phone +48 503 017 712

E-mail of the person responsible for the safety data sheet: info@micro-chip.pl

1.4 Emergency telephone number

Emergency number in Poland (open 9:00-15:00): + 48 503 017 712

Date of preparation: 16/03/2023

## **SECTION 2: HAZARD IDENTIFICATION**

2.1 Classification of the substance or mixture

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

Aerosol products, hazard category 1 (Aerosol 1)

Extremely flammable aerosol (H222)

Serious eye damage/eye irritation, hazard category 2 (Eye Irrit. 2)

Causes serious eye irritation. (H319)

Specific target organ toxicity - single exposure, hazard category 3, narcotic effects (STOT SE 3)

May cause drowsiness or dizziness. (H336)

#### Health hazards:

In case of significant concentrations of vapors or direct contact of the product with the eyes, irritation, redness, tearing, burning, conjunctivitis may occur. Contamination of the skin with a large amount of the product may cause redness, itching and dryness of the skin. Inhalation of vapors in high concentrations causes headache and dizziness, nausea, shortness of breath, respiratory disorders, impaired consciousness, loss of consciousness. Oral route (when swallowed in large quantities) causes nausea, vomiting, abdominal pain, diarrhea and the occurrence of symptoms

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narcotics, as in inhalation poisoning. As with all liquefied gases, contact with rapidly evaporating liquid may cause burns (frostbite) of skin and eyes.

#### Effects on the environment:

When used properly, it does not pose a threat to the environment.

#### Effects related to physicochemical properties:

Product vapors are heavier than air, they can create explosive mixtures with air. They accumulate near the ground and in the lower parts of rooms. Containers exposed to fire or high temperatures may explode.

## 2.2 Labeling elements

Pictograms:





#### Signal Word: Danger

#### **Hazard statements:**

H222 - Extremely flammable aerosol.

H229 - Pressurized container: May burst if heated.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

## Precautionary statements:

P102 - Keep out of reach of children.

P261 - Avoid breathing mist/vapours/spray.

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

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 o C/1220F .

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

## Additional labeling requirements:

Contains: propan-2-ol.

### 2.3 Other threats

The mixture does not meet the PBT and vPvB criteria. It does not contain any ingredients considered to be endocrine disrupting according to Article 57(f) of the REACH Regulation or Regulation (EU)

2017/2100 or Regulation (EU) 2018/605 at a concentration of 0.1% or higher.

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26/06/2020)

## **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

3.2 Mixtures

Product ID: CLEANSER IPA

CLEANSER IPA PLUS SPRAY

Ingredients of the mixture:

	ul. mass i %	ul.	Classification according to Regulation (EC) No 1272/2008			
Name of the substance		mass in %	Hazard classes and Category Codes	Return codes indicating type threats		
Propan-2-ol	603-117-00-0	67-63-0	200-661-7	70	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336
Butane	601-004-00-0	106-97-8	203-448-7	6 - 13	Flame Gas 1 Press Gas	H220
Propane	601-003-00-5	74-98-6	200-827-9	5 - 10	Flame Gas1 Press Gas	H220
Carbon dioxide	lack	124-38-9	204-696-9	2 - 5	lack	lack
Isóbutane	601-004-00-0	75-28-5	200-857-2	1 - 3	Flame Gas 1 Press Gas	H220

Additionally, the product contains: nitrogen (CAS 7727-37-9): 2-5%.

The full text of H phrases and the acronyms of symbols, hazard classes and category codes are given in Section 16 of the Safety Data Sheet.

## **SECTION 4: FIRST AID MEASURES**

## 4.1 Description of first aid measures

Inhalation: Remove the injured person from the place of exposure, place them in a comfortable half-sitting or sitting position,

ensure calmness, protect against heat loss. If breathing difficulties occur, apply artificial respiration.

If symptoms persist, call

doctor.

Skin contact: Pour cold water over the frostbitten body part, then remove contaminated clothing, rings, bracelets,

watches, etc. If the clothing is stuck to the skin, do not remove it. Warm up the frostbitten body

part slowly.

Cover with a sterile dressing. Do not use ointments or creams. Note: soak contaminated clothing

with water before removing.

prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union No L 203,

26/06/2020)

Eye contact: Rinse immediately with plenty of water, preferably running, for at least 15 minutes.

Remove contact lenses. Avoid strong water jets due to the risk of mechanical damage to the cornea. In

case of burns, seek immediate medical attention.

Digestive tract: This is an unlikely route of exposure. Do not induce vomiting. Rinse

mouth with water, then drink plenty of water. Consult a physician if necessary.

4.2 Most important acute and delayed symptoms and effects of exposure In

case of significant concentrations of vapours or direct contact of the product with the eyes, irritation, redness, tearing, burning, conjunctivitis may occur. Contamination of the skin with a large amount of the product may cause redness, itching and dryness of the skin. Inhalation of vapours in high concentrations causes headache and dizziness, nausea, shortness of breath, respiratory disorders, impaired consciousness, loss of consciousness. Ingestion (when large quantities are swallowed) causes nausea, vomiting, abdominal pain, diarrhea and the occurrence of narcotic symptoms, as in inhalation poisoning. As with all liquefied gases, contact with rapidly evaporating liquid may cause burns (frostbite) of the skin and eyes.

4.3 Indications of any immediate medical attention and special treatment for the injured person

In case of contact with the product in liquid form, proceed as in the case of frostbite.

Do not give anything by mouth to an unconscious person and do not induce vomiting. Give the attending physician the safety data sheet.

#### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable extinguishing media:

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

Inappropriate extinguishing media:

Do not use dense streams of water on the surface of the liquid.

5.2 Special hazards arising from the substance or mixture

Carbon oxides are released in a fire environment. Aerosols may explode when heated to temperatures above 50ÿC.

5.3 Information for the fire brigade

Extremely flammable aerosol. Vapours form explosive mixtures with air, are heavier than air and accumulate near the ground and in lower parts of rooms. Cool containers exposed to fire from a safe distance with a sprayed water jet (explosion hazard); if possible, remove them from the endangered area. Gas-tight clothing in antistatic version, insulating respiratory protective equipment.

## SECTION 6: MEASURES IN THE EVENT OF ACCIDENTAL ENVIRONMENTAL RELEASES

6.1 Personal precautions, protective equipment and emergency procedures Remove all sources of ignition - extinguish open flames, announce a ban on smoking and the use of sparking tools, protect containers from heating (explosion hazard). Do not enter the endangered area.

prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union No L 203,

26/06/2020)

Do not breathe gas/mist/vapours/spray. Provide adequate ventilation. Wear protective clothing and equipment (see section 8).

CAUTION: Potentially explosive area. Gas is heavier than air and can travel along the floor/ground to distant ignition sources and create a flashback hazard. To ensure safe working conditions, check gas levels before allowing personnel to enter.

Inform the surroundings about the failure; remove from the danger area all persons not involved in eliminating the failure, if necessary order an evacuation; call rescue teams.

## 6.2 Environmental precautions

Prevent entry into sewage systems, surface and ground waters, soil and all places (e.g. ground depressions) where accumulation may occur.

## 6.3 Methods and materials for containment and cleaning up

Secure drains. Place damaged packaging in a replacement container. Dilute vapors with a dispersed stream of water. Remove sources of ignition (extinguish open flames, announce a ban on smoking and the use of sparking tools). Absorb the product in a chemically inert binding material (sand, diatomaceous earth), transfer to tightly closed containers and send for disposal. Rinse the contaminated surface with a large amount of water.

## 6.4 References to other sections

Dispose of in accordance with the recommendations in section 13.

## SECTION 7: HANDLING AND REMEDIES OF SUBSTANCES AND MIXTURES STORAGE

## 7.1 Precautions for safe handling

Provide adequate general and local ventilation. Keep away from sources of high temperature and sources of ignition. Do not spray on an open flame or any incandescent material. Do not puncture or burn aerosol containers, even empty, after use of the mixture. It is advisable to take precautions to avoid contact with skin and eyes when working with the mixture. Do not breathe gas/mist/vapours/spray.

Prevent entry into sewage, surface and ground water and soil. Do not eat, drink or smoke during use. Wash hands during breaks and after work. Remove contaminated clothing, wash before re-wearing.

## 7.2 Conditions for safe storage, including information on any incompatibilities

Product vapors with air may form explosive mixtures. Vapours are heavier than air and accumulate near the floor or ground surface. Store in original, properly labeled, tightly closed containers, in a cool, dry, well-ventilated storage room, equipped with explosion-proof electrical and ventilation installations. Pressurized containers: protect from sunlight, do not expose to temperatures above 50ÿC. Store away from sources of high temperature, sources of ignition, oxidizers. Protect from sunlight.

#### 7.3 Specific end use(s)

No information on uses other than those mentioned in section 1.2.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1 Control parameters

Legal basis:

prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union No L 203,

26/06/2020)

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018, on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws, item 1286, 2018) and Regulation of the Minister of Family, Labor and Social Policy of January 9, 2020, amending the regulation on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws, item 61, 2020) and Regulation of the Minister of Development, Labor and Technology of February 18, 2021, amending the regulation on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws, item 325, 2021)

Name of the substance Propan-2-ol	CAS No. 67-63-0	Standard NDS NDSCh NDSP	value 900 1200 not determined	unit mg/m3 mg/m3
Propane Butane	74-98-6 106-97-8	(skin) NDS NDSCh and NDSP not NDS		mg/m3
	124-38-9	NDSCh NDSP NDS	3000 Not specified	mg/m3 mg/m3
Carbon dioxide	124-38-9	NDSCh NDSP	9000 27000 Not specified	mg/m3 mg/m3

The skin notation indicates that absorption of the substance through the skin may be as important as inhalation exposure.

## Propan-2-ol:

DNEL values for employees:

888 mg/kg (skin) - local

Long-term DNEL values for workers:

500 mg/m3 (inhalation) - local DNEL values 319 mg/kg (skin) - local spicy for the general public:

Long-term DNEL values for the general public

89 mg/m3 (respiratory) - local PNEC values:

140.9 mg/l (freshwater)

140.9 mg/l (sea water)

552 mg/l (sediment - fresh and sea water)

28 mg/kg (soil)

## 8.2 Exposure Control

## 8.2.1 Appropriate technical control measures

Local exhaust ventilation to remove vapors from their emission points and general room ventilation are required. Local ventilation intake openings at the work surface or below. General ventilation exhausts at the top of the room and at the floor. Ventilation systems must meet the conditions established with regard to the risk of fire. Do not use near sources of high temperature and sources of ignition. In the event of insufficient ventilation, use respiratory protection.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Respiratory tract: If the permissible concentrations of product vapours are exceeded, respiratory protection with a particle filter marked in white and the symbol P2 and a vapour filter marked in brown and the letter A should be used. AP combination filters may be used.

prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union No L 203,

26/06/2020)

Hands and skin: Use protective clothing made of natural materials (cotton) or synthetic fibres,

protective gloves; for prolonged and repeated contact, use nitrile or leather protective gloves in accordance with the PN-EN ISO 374 and PN-EN ISO 21420 standards. The gloves should remain flexible at temperatures below the boiling point of gas at atmospheric pressure.

Eyes: When performing activities that may result in contact with the face, wear goggles, a mask, and

safety glasses with side shields.

Occupational hygiene: General industrial hygiene regulations apply. Do not exceed permissible normative concentrations in the workplace environment. After finishing work, remove contaminated clothing. Before breaks in work, wash hands and face. After work, wash the whole body thoroughly. Do not eat, drink, or smoke while working.

8.2.3 Environmental exposure controls

Prevent entry into watercourses.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

a) State of matter

Liquid atomized with propellant.

b) Colour

Colourless.

c) Alcohol

Smell.

d) Melting/freezing point

For propan-2-ol: - 88 oC.

e) Boiling point or initial boiling point and boiling range

For propan-2-ol: 82 - 83 oC.

f) Flammability of materials

Inflammable mixture.

g) Lower and upper explosive limits

Explosion limits for propan-2-ol:

Top: 12% vol.

Bottom: 2% vol.

h) Flash point

For propan-2-ol: 12 oC.

i) Auto-ignition temperature

For propan-2-ol: 425 oC.

j) Decomposition temperature

No data available.

k) pH

No data available.

I) Kinematic viscosity

Dynamic viscosity for propan-2-ol: 2.43 mPa.s (20 oC) m)

Solubility

Propan-2-ol: soluble in water.

n) n-octanol/water partition coefficient (log coefficient value)

Propan-2-ol: 0.05.

o) Vapour

pressure for propan-2-ol: 6.020 Pa.

prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union No L 203 of 26.06.2020)

p) Density or relative density For propan-2-ol: 0.785 – 0.786 (water = 1). q) Relative vapour density For propan-2-ol:
 2 (air = 1). r) Particle characteristics Not applicable.

#### 9.2 Other information

9.2.1. Information on physical hazard classes a) Explosives: Not

applicable. b) Flammable gases: Not applicable. c) Aerosols: Aerosol

1; Extremely flammable aerosol. Pressurized container: May explode if heated. d) Oxidizing gases Not

applicable e) Gases under

pressure Not applicable f) Flammable

liquids Not applicable g)

Flammable solids Not applicable h)

Self-reactive substances and mixtures Not applicable i)

Pyrophoric liquids Not applicable j) Pyrophoric

solids Not applicable k) Self-heating

substances and mixtures Not applicable I) Substances and

mixtures which in contact with water emit flammable gases Not applicable m) Oxidizing

liquids Not applicable n) Oxidizing solids Not

applicable o) Organic peroxides Not

applicable p) Corrosive to metals Not

applicable q) Desensitized explosives Not applicable

## 9.2.2 Other safety properties a) mechanical

sensitivity: No data. b) self-accelerating

polymerization temperature: No data. c) formation of explosive

dust/air mixtures: Not applicable. d) acid/base reserve: No data. e)

evaporation rate: No data. f) miscibility: propan-2-ol is miscible with water. q)

conductivity: No data. h) corrosive effect: Not applicable.

i) gas group: No data. j) redox

potential: No data. k) radical

formation potential: No data.

I) photocatalytic properties: No

data.

## **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity No

reactivity when stored and handled as intended.

10.2 Chemical stability

Under normal conditions of use and storage the product is stable.

10.3 Possibility of hazardous reactions The container contains gas

 $under\ increased\ pressure\ \hbox{--it should be protected from sunlight, the temperature should not exceed}\ 50$ 

°C. Vapours form explosive mixtures with air.

prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union No L 203,

26/06/2020)

#### 10.4 Conditions to avoid

High temperature, ignition sources, open flames.

#### 10.5 Incompatible Materials

Strong oxidizers.

#### 10.6 Hazardous decomposition products

They are not known.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:

Based on available data, the classification criteria are not met.

Propan-2-ol:

DL50 - oral, rat: > 5000 mg/kg

DL50 - skin, rabbit: > 5000 mg/kg

CL50 - inhalation, rat >5 mg/l Skin

corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation:

Irritating to eyes.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Mutagenic effect on germ cells:

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.

Specific target organ toxicity - single exposure:

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

## 11.2 Information about other threats

## 11.2.1. Endocrine disrupting properties

Does not contain ingredients that are considered to disrupt the functioning of the endocrine system in accordance with Art. 57(f) of the REACH Regulation or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at a concentration of 0.1% or higher.

#### 11.2.2. Other information

No data available.

#### **SECTION 12: ECOLOGICAL INFORMATION**

## 12.1 Toxicity

Based on available data, the classification criteria are not met.

prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC)	) No
1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of	
Chemicals (REACH) (Official Journal of the European Union No L 203,	

26/06/2020)

Propan-2-ol:			
Dose	<u>value <sub>un</sub>it.</u>		
CL50 – fish (Pimephales promelas)	9640-11130	) mg/l (96h)	
CL50 – fish (Carassius auratus)	> 5000	mg/l (24h)	
CL50 - fish (Leuciscus idus melanotus)	8970-9280 m	ng/l (48h)	
CE50 – invertebrates (Daphnia magna)	> 10000	mg/l (24h)	
CE50 – algae (Scenedesmus subspicatus)	> 1000 mg/l (	72h)	

CE50 – algae (Scenedesmus subspicatus) > 1000 mg/l (72h)

CE50 – bacteria (*Pseudomonas putida*) 1050 mg/l (16h) CE50 – protozoa (*Entosiphon sulcatum*) 4930 mg/l (72h)

## 12.2 Persistence and degradability

Propan-2-ol: readily biodegradable (> 70 % after 10 days; > 95 % after 28 days, OECD 301 E)

## 12.3 Bioaccumulative potential

Propan-2-ol: has a low potential for bioaccumulation.

Octanol/water partition coefficient (log Ko/w): Propan-2-ol: 0.05.

Bioconcentration factor (BCF): Not applicable.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

The mixture does not meet the PBT and vPvB criteria.

## 12.6 Endocrine disrupting properties

Does not contain ingredients that are considered to disrupt the functioning of the endocrine system in accordance with Art. 57(f) of the REACH Regulation or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at a concentration of 0.1% or higher.

#### 12.7 Other harmful effects

No data available

## **SECTION 13: WASTE CONSIDERATIONS**

13.1 Wa	aste dis	posal	methods
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Do not dispose of the product together with municipal waste, do not introduce it into the sewage system. Do not allow contamination of ground and surface water.

Hazardous waste\*:

HP 3 "Flammable"

HP 4 "Irritating"

HP 5 "Specific Target Organ Toxicity (STOT)"

\*COMMISSION REGULATION (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives (Official Journal of the EU, L.365, December 2014).

Special precautions	s:
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Dispose of the product and its packaging safely. Use caution when handling empty containers that have not been thoroughly cleaned. Vapours from product residues may create a flammable or explosive atmosphere inside the container. Do not cut or weld used containers unless they have been thoroughly cleaned.

Legal	basis:	

prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union No L 203,

26/06/2020)

Announcement of the Speaker of the Sejm of the Republic of Poland of 16 April 2020 on the announcement of the consolidated text of the Act on Waste (Journal of Laws, item 797, 2020).

Announcement of the Speaker of the Sejm of the Republic of Poland of 1 December 2022 on the announcement of the uniform text of the Act on the management of packaging and packaging waste (Journal of Laws, item 160, 2023).

REGULATION OF THE MINISTER OF CLIMATE of 2 January 2020 on the waste catalogue (Journal of Laws, item 10, 2020).

## **SECTION 14: TRANSPORT INFORMATION**

ADR/RID, IMDG, IATA

- 14.1 UN number or ID number
- 14.2 UN proper shipping name Flammable AEROSOLS.
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

The product does not pose a hazard to the environment according to the criteria of the UN Model Regulations.

14.6 Special precautions for users

Always transport in closed containers that are properly secured. Make sure that those transporting the product know what to do in the event of a failure.

14.7 Bulk sea transport in accordance with IMO instruments

Not applicable - the product is transported in sealed packaging.

## **SECTION 15: REGULATORY INFORMATION**

15.1 Safety, health and environmental protection regulations specific to

ANNOUNCEMENT OF THE MARSHAL OF THE SEJM OF THE REPUBLIC OF POLAND of 22 July 2022 on the announcement of the uniform text of the act on chemical substances and their mixtures (Journal of Laws, item 1816, 29/08/2022).

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 (Official Journal of the European Union, series L, No 353 of 31 December 2008) with subsequent amendments (adaptations to technical progress 1 - 18 ATP).

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (Official Journal of the EU, series L/81 of 31.03.2016).

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of harmful health factors in the work environment (Journal of Laws, item 1286, 2018)

REGULATION OF THE MINISTER OF FAMILY, LABOUR AND SOCIAL POLICY of 9 January 2020 amending the regulation on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws item 61, 2020)

prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union No L 203,

26/06/2020

Regulation of the Minister of Development, Labor and Technology of February 18, 2021 amending the regulation on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws, item 325, 2021).

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws No. 33, item 166, 2011).

Announcement of the Minister of Health of 9 September 2016 on the announcement of a uniform text of the regulation of the Minister of Health on occupational health and safety related to the presence of chemical factors in the workplace (Journal of Laws, item 1488, 2016)

Government Statement of 26 July 2005 on the entry into force of amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) concluded in Geneva on 30 September 1957 (Journal of Laws No. 178, item 1481, 2005 with subsequent amendments).

Announcement of the Speaker of the Sejm of the Republic of Poland of 16 April 2020 on the announcement of the consolidated text of the Act on Waste (Journal of Laws, item 797, 2020).

Announcement of the Speaker of the Sejm of the Republic of Poland of 1 December 2022 on the announcement of the uniform text of the act on the management of packaging and packaging waste (Journal of Laws, item 160, 2023) REGULATION OF THE MINISTER OF CLIMATE of 2 January 2020 on the waste catalogue (Journal of Laws, item 10, 2020).

NOTICE of the Minister of Entrepreneurship and Technology of April 15, 2019 on the announcement of the uniform text of the regulation of the Minister of Economy on detailed requirements for aerosol products (Journal of Laws, item 975, 2019)

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 (Official Journal of the European Union, series L, No 396 of 30 December 2006, as amended).

## 15.2 Chemical safety assessment

The supplier did not perform a chemical safety assessment of the mixture.

## **SECTION 16: OTHER INFORMATION**

The card was developed in the ÿukasiewicz Research Network - the Institute of Industrial Chemistry named after Professor Ignacy Moÿcicki in Warsaw based on the recipe and ingredient safety data sheets.

The information provided in the safety data sheet is intended to describe the product only from the point of view of safety requirements. The user is responsible for creating conditions for safe use of the product and it is the user who takes responsibility for the consequences resulting from improper use of this product.

H phrases and acronyms of symbols, hazard classes and category codes used in Section 3. Safety data sheets:

H220 Extremely flammable gas

H319 Irritating to eyes.

H336 May cause drowsiness or dizziness.

Flam. Gas. 1 Flammable gases, hazard category 1.

Eye Irrit. 2 Serious eye damage/eye irritation, hazard category 2.

STOT SE 3 Specific target organ toxicity – single exposure, hazard category 3, narcotic effect.

prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the European Union No L 203,

26/06/2020)

#### Abbreviations:

OEL - The highest permissible concentration at the workplace - the highest permissible weighted average concentration, the impact of which on the employee during an 8-hour working day, throughout his/her entire professional activity, should not cause any changes in his/her health or in the health of his/her future generations

OELCh - Maximum allowable momentary concentration - the highest allowable momentary concentration established as an average value that should not cause negative changes in the health of the employee and in the health of his future generations if it is maintained in the work environment for no longer than 30 minutes during a work shift

NDSP - concentration value which cannot be exceeded at any time in the work environment due to a threat to the health or life of an employee

vPvB - Very persistent and very bioaccumulative substance

PBT - Persistent, Bioaccumulative and Toxic

DL50 - Lethal dose - a dose at which 50% of the tested animals die within a specified time period.

CL50 - Lethal concentration - concentration at which 50% of the tested animals die within a specified time period.

CE50 - Effective concentration - effective concentration of a substance causing a response of 50% of the maximum value

BCF - Bioconcentration factor (bioconcentration) - the ratio of the concentration of a substance in an organism to its concentration in water at equilibrium

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road Agreement on Dangerous Goods by Road)

RID - Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods Code

IATA - International Air Transport Association International Air Transport Association)

IMO - International Maritime Organization

CAS – the number assigned to a chemical substance in the Chemical Abstracts Service inventory

EC - reference number used in the European Union to identify hazardous substances,

in particular those registered in the European Inventory of Existing Chemical Substances (EINECS), or in the European List of Notified Chemical Substances (ELINCS), or the list of chemical substances listed in the publication "Nolonger polymers"

UN number – a four-digit identification number of a material in the UN Hazardous Materials Inventory, derived from the UN Model Regulations, to which an individual material, mixture or article is classified

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