

Punch Sanitizer



1. Identification of substance/mixture and company/undertaking

1.1 Product identifier:

Punch Sanitizer
SANITIZER antiseptic spray

1.2 Relevant identified uses of substance or mixture, and uses advised against:

Disinfectant; disinfection of human skin, disinfection of surfaces.

1.3 Details of the supplier of safety data sheet:

Name: Punch Drinks OÜ
Address: Värvi 5, Tallinn, 10621, Estonia
Phone: +372 55981040
E-mail: info@punch-drinks.com
Commercial registry code of applicant: 14021862

1.4 Emergency phone number

112, Poisoning information 16662 (24H)

2. Identification of hazards

2.1 Classification of substance or mixture:

CLP Regulation (EC) no 1272/2008:
The product is classified in accordance with CLP Regulation (EC) no 1272/2008.
Eye Irrit. 2: Severe eye damage/eye irritation, hazard category 2,
H319 Flam. Liq. 2: Flammable liquids, hazard category 2, H225

2.2 Labeling elements:

CLP Regulation (EC) no 1272/2008:
Caution



Hazard statements:

Eye Irrit. 2: H319 – Causes severe eye irritation
Flam. Liq. 2: H225 – Highly flammable liquid and fumes

Precautionary statements:

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P210: Keep away from sources of heat, hot surfaces, sparks, flames and other sources of ignition. Do not smoke

P233: Keep package tightly sealed

P305+P351+P338: IN CASE OF EYE EXPOSURE: carefully rinse with water for several minutes. Remove contact lenses if worn and easily removed. Rinse again.

P403+P235: Store in a well ventilated place.

2.3 Other hazards:

Not relevant.

3. Ingredients/information regarding ingredients

Substance	CAS / EC number	Concentration	Classification 1272/2008/EU
Ethanol	64-17-5 / 200-578-6	70-78%	<i>Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Caution</i>
Glycerol	56-81-5 / 200-289-5	0.2-2%	No hazard division

For further information regarding risks related to substance see clauses 8, 11, 12, 15 and 16.

4. First aid measures

4.1 Description of first aid measures:

Symptoms of poisoning may appear after contact. Therefore, if in doubt, in case of direct contact with a chemical substance or when the feeling of discomfort persists, always consult a doctor and show the doctor the relevant safety data sheet.

In case of inhalation:

The product is not classified hazardous upon inhalation. However, should symptoms of poisoning appear, the victim should be taken from area of contact into fresh air and provided some rest. Should symptoms persist, consult a doctor.

In case of contact with skin: In case of contact with skin, it is recommended to thoroughly cleanse the harmed area with water and neutral soap.

In case of skin irritation (should lippitude, redness or rash, blisters etc) appear, consult a doctor presenting this safety data sheet.

In case of contact with eyes: Thoroughly rinse eyes with lukewarm water for a minimum of 15 minutes. Do not let the victim rub or close eyes. If victim wears contact lenses, these should be removed – if not

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stuck in the eyes, for that might add to the hurt. After cleansing always consult a doctor as soon as possible, presenting the safety data sheet of the product involved.

In case of ingestion or inhalation: If swallowed, immediately consult a doctor, presenting this safety data sheet.

4.2 Major acute and later symptoms and effect:

Acute and later side effects have been listed in subsections 2 and 11

4.3 Notification regarding the need for any emergency medical aid and specialized care:

Not relevant

5. Fire extinction measures

5.1 Fire-extinguishing appliances:

If possible, use polyvalent powder extinguishers (ABC powder), foam extinguishers or carbon dioxide extinguishers (CO₂). Use of tap water not recommended.

5.2 Special hazards related to substance or mixture:

Burning or decomposition due to heat produces reactive residue which may be extremely toxic and cause severe health hazard.

5.3 Advice for firefighters:

Depending on spread of the fire, use of full protective clothing set and respiratory protective equipment may be required. The minimal emergency equipment (fire blankets, first aid kit etc) as specified in Directive 89/654/EC is prescribed.

Additional provisions:

Act according to emergency plan and information sheets regarding activities after accidents or other emergency situations. Remove all sources of ignition. In case of fire, cool all storage containers and tanks containing substances which, at high temperatures, may ignite, explode or explode due to boiling liquid expanding vapor explosion (BLEVE). Avoid leakage of fire-extinguishing substances into aquatic environment.

6. Measures in case of accidental contamination of the environment

6.1 Personal protection measures, protective equipment and actions taken in emergency:

Isolate leakages, provided this does not cause additional hazards to persons performing such tasks. Evacuate persons without appropriate personal protective equipment and keep them away from danger zone. Use personal protective equipment to avoid potential contact with leaked product (see subsection 8). Avoid formation of flammable mixtures of air and substance due to ventilation or use of inert

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substances. Remove all sources of ignition. Remove all electrostatic charges by interconnecting all conductive surfaces on which charges of static electricity may form, and ensure earthing of all such surfaces.

6.2 Environmental protection measures:

This product is not classified as hazardous for the environment. Keep the product away from water drainage, surface water and underground water.

6.3 Measures and means for blocking and cleansing:

It is recommended:

To collect the leakage with sand or other such absorbent and remove to a safe place. Do not use sawdust or other such flammable absorbents. Regarding all questions related to removal see subsection 13.

6.4 References to other clauses:

See clauses 8 and 13

7. Handling and storage

Precautions needed for ensuring safe handling:

A.- Precautionary measures of safe handling

Follow local laws regarding prevention of industrial risks. Keep containers hermetically sealed. Manage leaks and waste, and dispose thereof in a safe manner (subsection 6). Avoid leakage from containers. Maintain tidiness and cleanliness while using hazardous substances.

B.- Technical advice for prevention of fire and explosions

Handle in well ventilated areas, advisably using local exhaust ventilation. Manage all sources of ignition (mobile phones, sparks etc) and ensure sufficient ventilation during all cleaning works. Avoid creation of hazardous atmospheres in containers and at every opportunity use inert gas systems. Handle slowly in order to avoid creating electrostatic charges. As protection against the formation of electrostatic charges, ensure ideal equipotential bonding connection, always use earthing cables, do not wear working clothing made of acrylic fibers, and prefer cotton clothing and conductive footwear. Avoid extruding parts and pulverization. Follow the basic requirements regarding protective devices and protective systems specified in Directive 94/9/EC (ATEX 100) and, minimally, the occupational safety requirements prescribed by Directive 1999/92/EC (ATEX 137). For additional information regarding conditions and materials to be avoided, see subsection 10.

C.- Technical advice to avoid ergonomic and toxicological risks

Do not eat and drink during use, afterwards wash hands with suitable cleaning agent.

D.- Technical advice to avoid environmental risks

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We advise keeping absorbent at hand near the product, to collect leakages (see subsection 6.3)

7.2 Safe storage conditions, including inappropriate storage conditions:

A.- Technical measures for storage

Minimal temperature: 1 °C

Maximal temperature: 30 °C

B.- General conditions of storage

Avoid contact with heat, radiation, static electricity and food. For additional information see subsection 10.5

Other information:

Store tightly sealed at room temperature (1-30C) in a dry and well ventilated place.

7.3 Specific use:

No special advice is needed for use of product, except the guidelines already specified.

8. Exposure management/personal protection

Identification	Environmental limits		
	Ethanol, CAS: 64-17-5 EU: 200-578-6	Limit value	500 ppm
Short-term exposure limit value		1000 ppm	1900 mg/m ³
Glycerol, CAS: 56-81-5 EU: 200-289-5	Limit value	None*	None*
	Short-term exposure limit value	None*	None*

* Not among substances the occupational limit values of which ought to be monitored in occupational environment (Regulation of the Government of the Republic no 293, September 18th 2001). There are no environmental limits regarding the substance glycerol.

DNEL (Personnel):

Identification		Short-term exposure		Long-term exposure	
		Systemic	Local	Systemic	Local
Ethanol, CAS: 64-17-5 EU: 200-578-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	343 mg/kg	Not relevant

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	Inhalation	Not relevant	1900 mg/m ³	950 mg/m ³	Not relevant
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DNEL (Population):

		Short-term exposure		Long-term exposure	
Identification		Systemic	Local	Systemic	Local
Ethanol, CAS: 64-17-5 EU: 200-578-6	Oral	Not relevant	Not relevant	87 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	206 mg/kg	Not relevant
	Inhalation	Not relevant	950 mg/m ³	114 mg/m ³	Not relevant

PNEC:

Identification					
Ethanol, CAS: 64-17-5 EU: 200-578-6	STP	580 mg/L	Fresh water	Fresh water	0.96 mg/L
	Soil	Not relevant	Sea water	Sea water	0.79 mg/L
	Intermittent	2.75 mg/L	Sediment (fresh water)	Sediment (fresh water)	3.6 mg/kg
	Oral	720 g/kg	Sediment (sea water)	Sediment (sea water)	Not relevant

8.2 Exposure management:

A.- General safety and hygiene measures at workplace

As a preventive measure, it is recommended to use common personal protective equipment with CE mark, according to Directive 89/686/EC. Additional information regarding personal protective equipment (storage, use, cleaning, maintenance, protection class etc) may be found on respective manufacturer's information sheet. For additional information see subsection 7.1.

B.- Respiratory protection

Protective equipment must be used when fog is formed or limit values of occupational exposure are exceeded.



C.- Special protection of hands

Drawing	Personal protective equipment	Marking	CEN standard	Notes

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 Protective gloves are mandatory	Protective gloves against minor risks			Replace the gloves upon any sign of deterioration of quality. In case of longer-term exposure to product, professional/industrial users are advised to wear CE III gloves according to standards EN 420 and EN 374
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The product being a mixture of various substances, trustworthy prior calculation of the resistance of the material the gloves are made from is impossible; therefore, it is to be determined before use.

D.- Eye and face protection

Drawing	Personal protective equipment	Marking	CEN standard	Notes
	Panoramic goggles protecting from spray and/or effect		EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect regularly according to manufacturer's instructions. Use advised in case of spray hazard.

E.- Protection of body



Drawing	Personal protective equipment	Marking	CEN standard	Notes
	Working clothes			Replace before any signs of deterioration. During longer-time effect of the product, CE III is advised for professional/industrial users according to norms specified in standards EN ISO 6529 (2001), EN ISO 6530 (2005), EN ISO 13688 (2013), EN 464 (1994).

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F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 <p>Emergency shower</p>	ANSI Z358-1 3864-1:2011, 3864-4:2011 ISO ISO	 <p>Places to wash eyes</p>	DIN 12 899 3864-1:2011, 3864-4:2011 ISO ISO

If needed, use EN143: A2 environmental exposure management for respiratory protection. According to legislation regarding environmental protection, it is recommended to avoid both product and its container getting into the environment. For additional information see subsection 7.1.D

9. Physico-chemical properties

9.1 Information regarding general physico-chemical properties:

Appearance:

State of matter at 20 °C: Liquid
Appearance: Transparent
Color: Colorless
Smell: Alcohol
Smell threshold: Not relevant *

Volatility:

Initial boiling point and boiling range: 78 °C
Vapor pressure 20 °C: 5900 Pa
Vapor pressure 50 °C: Not relevant *
Vaporizing speed 20 °C: Not relevant *

Product description:

Density 20 °C: 870 kg/m³
Relative density 20 °C: 0.87
Dynamic viscosity: 20 °C: Not relevant *

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Kinematic viscosity: 20 °C: Not relevant *
Kinematic viscosity: 40 °C: Not relevant *
Concentration: Not relevant *
pH: 8
Vapor density 20 °C: Not relevant *
Partition coefficient (n- octanol/water) 20 °C: Not relevant *
Water solubility: 20 °C: Not relevant *
Solubility properties: Well soluble in water
Decomposition temperature: Not relevant *
Melting/freezing point: Not relevant *
Explosiveness hazard: Not relevant *
Oxidizing properties: Not relevant *

*Not relevant due to essence of product, information missing regarding essence of hazards.

Flammability:

Flash point: 19 °C
Flammability (solid, gas): Not relevant *
Self-ignition temperature: Not relevant *
Lower flammability limit: 3.3 % volume
Upper flammability limit: 19 % volume

Combustibility:

Lower combustibility limit: Not relevant *
Upper combustibility limit: Not relevant *

9.2 Other information:

Surface tension: 20 °C: Not relevant *
Refractive index: Not relevant *

* Not relevant due to essence of product, information missing regarding essence of hazards

10. Persistence and reactivity

10.1 Reactivity:

Dangerous reactions not expected if the following technical instructions are kept at storage of chemicals.
See clause 7.

10.2 Chemical stability:

Chemically stable in storage, handling and usage conditions.

10.3 Possibility of dangerous reactions:

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In these conditions there are no dangerous reactions which could presumably cause pressure or excessive temperature.

10.4 Conditions to be avoided: Handling and storage at room temperature applied:

Impacts and friction	Exposure to air	Rise of temperature	Sunlight	Humidity
Not applicable	Not applicable	Burning hazard	Avoid direct effect	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidizing materials	Combustible materials	Other
Avoid strong acids	Not applicable	Avoid direct effect	Not applicable	Avoid alkalis or strong bases

10.6 Dangerous degradation products:

Regarding specific degradation products see clauses 10.3, 10.4 and 10.5. Depending on condition of degradation, complex mixtures of chemicals may excrete: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11. Toxicity information

11.1 Information regarding toxicological effects:

Research data on toxicological properties of the mixture itself is not available.

Hazardous effect on health:

In case of repeated or long-term exposure, or exposure exceeding the recommended occupational exposure limits, it may harm health depending on ways of exposure:

A- Swallowing (acute effect):

- Acute toxicity: On basis of available data, classification criteria are not fulfilled as it does not contain substances classified to be hazardous. For additional information see subsection 3.
- Causticity / Irritability: On basis of available data, classification criteria are not fulfilled as it does not contain substances classified to be hazardous towards this effect. For additional information see subsection 3.

B- Inhalation (acute effect):

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- Acute toxicity: On basis of available data, classification criteria are not fulfilled, but it contains substances that are classified as hazardous upon inhalation. For additional information see subsection 3.

- Causticity / Irritability: On basis of available data, classification criteria are not fulfilled, but it contains substances that are classified as hazardous upon inhalation. For additional information see subsection 3.

C- Dermal and eye exposure (acute effect):

- Dermal exposure: On basis of available data, classification criteria are not fulfilled as it does not contain substances classified to be hazardous at dermal exposure. For additional information see subsection 3.

- Eye exposure: Causes eye damage upon exposure.

D- CMR effects (carcinogenicity, mutagenicity and reproductive toxicity):

- Carcinogenic: On basis of available data, classification criteria are not fulfilled with the effects mentioned. For additional information see subsection 3. IARC: Not relevant

- Mutagenic: On basis of available data, classification criteria are not fulfilled as it does not contain substances classified to be hazardous towards this effect. For additional information see subsection 3.

- Reproductive toxicity: On basis of available data, classification criteria are not fulfilled as it does not contain substances classified to be hazardous towards this effect. For additional information see subsection 3.

E- Sensibilizing effects:

- (Via) respiratory tract: On basis of available data, classification criteria are not fulfilled as it does not contain substances classified to be sensibilizing. For additional information see subsection 3.

- (Through) skin: On basis of available data, classification criteria are not fulfilled as it does not contain substances classified to be hazardous towards this effect. For additional information see subsection 3.

F- Specific target organ toxicity (STOT)

- single exposure: On basis of available data classification criteria are not fulfilled, but it contains substances that are classified as hazardous upon inhalation. For additional information see subsection 3.

G- Specific target organ toxicity (STOT)

- repeated exposure: On basis of available data, classification criteria are not fulfilled as it does not contain substances classified to be hazardous towards this effect. For additional information see subsection 3.

- Skin: On basis of available data, classification criteria are not fulfilled as it does not contain substances classified to be hazardous towards this effect. For additional information see subsection 3.

H- Hazard upon inhalation: On basis of available data, classification criteria are not fulfilled as it does not contain substances classified to be hazardous towards this effect. For additional information see subsection 3.

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Other information:

Not relevant

Specific toxicological information regarding substances:

Identification	Acute toxicity		Species
Ethanol CAS: 64-17-5 EC: 200-578-6	LC50 orally	6200 mg/kg	Rat
	LD50 cutaneously	20000 mg/kg	Rabbit
	LC50 inhaled	124,7 mg/L (4 h)	Rat
Glycerol CAS: 56-81-5 EC: 200-289-5	LD50 orally	12.600 mg/kg	Rat
	LD50 cutaneously	Not relevant	Hare
	LD50 inhaled	18.700 mg/kg	Rat

12. Ecological information

Experimental information regarding ecotoxicological properties of the mixture is not available

12.1 Toxicity:

Identification	Acute toxicity		Species	Species
Ethanol CAS: 64-17-5 EC: 200-578-6	LC50	11000 mg/L (96 h)	Alburnus alburnus	Fish
	EC50	9268 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1450 mg/L (192 h)	Microcystis aeruginosa	Alga
Glycerol CAS: 56-81-5 EC: 200-289-5	LC50	54000 mg/L (96h)	Oncorhynchus mykiss	Rainbow trout
	EC50	> 10000 mg/L (24h)	Daphnia magna	Water flea

12.2 Persistence and degradability:

Identification	Degradability		Biological degradation	
Ethanol	BOD5	Not relevant	Concentration	100 mg/L

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CAS: 64-17-5 EC: 200-578-6	Code	Not relevant	Time period	14 days
	BOD5/COD	0.57	% biodegradable	89 %
Glycerol CAS: 56-81-5 EC: 200-289-5	BOD	870 mg / g	Concentration	67%
	COD	1160 mg / g	Time period	14 days
	ThOD	1217 mg / g	% biodegradable	100%

12.3 Bioaccumulation:

Identification	Bioaccumulation potential	
Ethanol CAS: 64-17-5 EC: 200-578-6	BCF	3
	Pow log	-0.31
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Ethanol CAS: 64-17-5 EC: 200-578-6	Koc	1	Henry	4.61E-1 Pa·m ³ /mol
	Conclusion	Very high	Dry soil	Yes
	Surface tension	2.339E-2 N/m (25 °C)	Moist soil	Yes

12.5 Assessment of persistent, bioaccumulative and toxic and highly persistent and highly bioaccumulative characteristics:

The product does not correspond to PBT / vPvB criteria

12.6 Other harmful effects:

Not described

13. Waste handling

13.1 Waste treatment methods:

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Code	Description	Waste classification (Commission Regulation (EU) no 1357/2014)
07 04 04*	Other organic solvents, washing liquids and stock solutions	Hazardous

Category of waste (Commission Regulation (EU) no 1357/2014):

HP3 Flammable, HP4 Irritant — skin irritation and eye damage

Waste handling (disposal and assessment):

Regarding assessment and disposal activities, consult an authorized waste handler according to annexes 1 and 2 (Directive 2008/98/EC, Waste Act, publication citation: RT (State Gazette) I, 04.07.2017, 43). Based on code 15 01 (2014/955/EU) and in case a container has been in direct contact with the product, it shall be treated the same way as the actual product. Otherwise it is handled as safe residue. Disposing through sewerage is not recommended. See clause 6.2.

Waste handling rules:

In accordance with Regulation (EC) no 1907/2006 (REACH) annex II, waste treatment provisions of the community or member state are presented in Community legislation Directive 2008/98/EC, 2014/955/EU, Commission regulation (EU) no 1357/2014; Estonian legislation: Waste Act (publication citation: RT I, 04.07.2017, 43), specified list of waste from products of concern (publication citation: RT I, 19.12.2015, 11)

14. Transport requirements

Land transport of dangerous goods:

On basis of ADR 2019 and RID 2019:



- 14.1 UN number:** UN1170
14.2 UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3 Transport hazard classification: 3
Labels: 3
14.4 Packing group II
14.5 Environmental hazards: NO
14.6 Special precautions for users:

Special regulations: 144, 601

Tunnel code: D/E

Physicochemical properties: see clause 9

In limited quantities: 1 L

14.7: Transport in bulk in accordance with MARPOL annex II and IBC code: Not relevant

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Maritime transport of dangerous goods:

On basis of IMDG 38-16:



14.1 UN number:	UN1170
14.2 UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3 Transport hazard classification:	3
Labels:	3
14.4 Packing group	II
14.5 Environmental hazards:	EI
14.6 Special precautions for users:	

Special regulations: 144

Tunnel code: F-E, S-D

Physicochemical properties: see clause 9

In limited quantities: 1 L

Segregation group: Not relevant

14.7: Transport in bulk in accordance with MARPOL annex II and IBC code: Not relevant

Air transport of dangerous goods:

On basis of IATA/ICAO 2019:



14.1 UN number:	UN1170
14.2 UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3 Transport hazard classification:	3
Labels:	3
14.4 Packing group	II
14.5 Environmental hazards:	EI
14.6 Special precautions for users:	

Physicochemical properties: see clause 9

14.7: Transport in bulk in accordance with MARPOL annex II and IBC code: Not relevant

15. Regulatory legislation

15.1 Safety, health and environmental rules/legislation applicable to substances and mixtures:

Regulation (EC) 528/2012: contains preservative to preserve the original properties of product concerned.

Contains Ethanol

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Candidate List substances, regarding which authorization has been applied for according to Regulation (EC) no 1907/2006 (REACH): Not relevant

Substances and expiry date included in annex IV of REACH (list of authorized substances): Not relevant

Regulation (EC) no 1005/2009 regarding substances depleting ozone layer: Not relevant

Article 95, REGULATION (EU) no 528/2012: Ethanol (Product category 1, 2, 4, 6) COUNCIL REGULATION (EU) no 649/2012 regarding import and export of dangerous chemical products: Not relevant

Seveso III:

Section	Description	Lower tier site requirements	Upper tier site requirements
P5c	FLAMMABLE LIQUIDS	5000	5000

Commercial and usage limitations for particular dangerous substances and mixtures (REACH, annex XVII etc ...):

Not relevant

Specific provisions for people or for environmental protection:

It is recommended to use the information contained in this safety data sheet as data which was used to assess the harmfulness of the substance in local conditions, in order to take the needed risk prevention measures regarding processing, use, storage and disposal.

Other legislation:

Chemicals Act (publication citation: RT i.e. State Gazette I, 29.06.2018, 67)

Requirements and procedure for the identification, classification, packaging and marking of dangerous chemicals (Publication citation: RT I, 10.11.2015, 21)

Lower hazard limit value for chemicals and the procedure for determining dangerous chemicals threshold level and of the danger category of enterprises (Publication citation: RT I, 11.02.2016, 22).

Requirements regarding the mandatory documentation of dangerous enterprises and enterprises liable to be affected by major accidents, and the compilation thereof, and regarding information forwarded to the public, and notifications about accidents (Publication citation: RT I, 02.03.2016, 3)

Terms of implementing the bans and limitations laid down for products of concern and limit values of content of dangerous substances on products of concern (Publication citation: RT I, 01.11.2016, 3)

Occupational health and safety requirements for the use of hazardous chemicals and materials containing hazardous chemicals (Publication citation: RT I, 26.03.2015, 16)

Occupational health and safety requirements for work performed by pregnant women and women who are breastfeeding (Publication citation: RT I, 26.03.2015, 18) European Parliament and Council Regulation (EU) no 528/2012, May 22nd 2012 concerning availability and use on biocides market.

15.2 Chemical safety assessment:

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Chemical safety assessment not required.

16. Other information

Acts related to safety data sheets:

This safety data sheet has been compiled in accordance with regulation (EC) no 1907/2006 (Regulation (EC) no 2015/830) annex II (guidance for compiling safety data sheets).

Changes of risk mitigation options as related to former safety data sheet:

Not relevant

Legal clauses reflected in paragraph:

H319: Causes strong irritation of eyes

H225: Highly flammable liquid and fumes

Legal clauses reflected in paragraph:

The highlighted sentences do not refer to the product, but are a headline containing information, referring to individual ingredients in part 3.

CLP regulation (EC) no 1272/2008:

Acute Tox. 4: H332 – Harmful when inhaled

Eye Irrit. 2: H319 - Causes strong irritation of eyes

Flam. Liq. 2: H225 - Highly flammable liquid and fumes

STOT SE 3: H335 – May cause respiratory irritation

Order of classification:

Eye Irrit. 2: Calculation method Flam.

Liq. 2: Calculation method (2.6.4.3)

Advice regarding training:

Minimum training is recommended in order to avoid industrial risks towards personnel using this product, aimed at making it easier for them to understand and interpret this safety data sheet and product marking.

Main bibliographic sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Acronyms and abbreviations:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: The International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

COD: chemical oxygen demand

BOD5: 5 days' biochemical oxygen demand

BCF: bioconcentration factor

LD50: lethal dose 50

LC50: lethal concentration 50

EC50: effective concentration 50 Log

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POW: partition coefficient in the system n- octanol/water
Koc: partition coefficient of organic carbon
Conc: concentration

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