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SEC	CTION 1: Identificatio	n of the substance	/mixture and of the company/undertaking		
1.1	Product identifier				
	Trade name:	Unisanol			
	CAS Number:	The mixture do	oes not have a uniform designation		
	Registration number:		The mixture does not have a uniform designation		
1.2	Relevant identified uses of the substance or mixture and uses advised against				
	Intended use: a virucide for hand disinfection (formulation as recommended by WHO)				
	Uses advised against: use the mixture only for the purposes specified by the manufacturer. Otherwise, the user may be exposed to unforeseeable risks.				
1.3	Details of the supplier	of the safety data sh	neet		
	Supplier:	Tomas Bata U	niversity in Zlín		
	Place of business or registered office:	nám. T. G. Ma	saryka 5555, 760 01 Zlín		
	Phone:	+42057603224	44		
	Email:	info-tpo@utb.o	CZ		
	Competent person:	ENVI GROUP email: info@en	P s.r.o., Příčná 2186, 347 01 Tachov, phone.: +420,373,721,316, nvigroup.cz		
1.4	(24 hrs/day) +420-2249 +420-2249	n centre, Na Bojišti 1, 019293 015402	number centre, Na Bojišti 1, CZ-120 00 Prague 19293		
			ate poisoning of people and animals		
SEC	CTION 2: Hazards ide	ntification			
2.1	Classification of the su		The mixture is classified as hazardous.		
	Classification accordin 1272/2008 CLP:	g to Regulation No.	Flam. Liq. 2, H225 Eye Irrit. 2, H319		
	Adverse effects on hun	nan health:	Causes serious eye irritation.		
	Adverse effects on the	environment:	Not classified		
	Hazardous physico-che	mical effects:	Highly flammable liquid and vapour.		
2.2	Label elements				
	Contains the active substance:	Ethanol			
	Hazard pictogram				
	Signal word	Danger			
	Hazard statements:	_	mable liquid and vapour ous eye irritation		
	Precautionary statements:P101 If medical a P102 Keep out o P210 Keep away No smoking. P233 Keep conta P305 + P351 + P Remove contact		dvice is needed, have product container or label at hand. reach of children. from heat, hot surfaces, sparks, open flames and other ignition sources. ner tightly closed. 338 - IF IN EYES: Rinse cautiously with water for several minutes. enses if present and easy to do. Continue rinsing. re irritation persists: Get medical advice/attention.		

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2.3 Other hazards:

The mixture is not identified as having PBT or vPvB properties.

Vapours form explosive mixtures with air. Vapours are heavier than air and may spread in the surrounding area and accumulate in low areas.

High concentrations of vapours irritate the eyes and mucous membranes of the respiratory tract and have a narcotic effect.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Substance identifier	CAS number Einecs Index number Registration number	Concentratio n (% vol.)	Classification according to 1272/2008
Ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43-0138	83-84	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Glycerol	56-81-5 200-289-5 - -	1.5	According to Regulation (EC) No 1272/2008, the product is not classified as hazardous substance or mixture.
Hydrogen peroxide 30%	7722-84-1 231-765-0 008-003-00-9 01-2119485845-22	0.4	Acute Tox. 4, H302, H332 Skin Corr. 1A, H314 Ox. Liq. 1, H271
Denatonium benzoate	3764-33-6 223-095-2 -	< 0.01	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Specific concentration limit			

Hydrogen peroxide 30%	7722-84-1 231-765-0 008-003-00-9 01-2119485845-22	Skin Corr. 1A; H314: $C \ge 70 \%$ Ox. Liq. 1; H271: $C \ge 70 \%$ STOT SE 3; H335; $C \ge 35 \%$ Eye Irrit. 2; H319: $5 \% \le C < 8 \%$ Skin Corr. 1B; H314: $50 \% \le C < 70 \%$ Eye Dam. 1; H318: $8 \% \le C < 50 \%$ Skin Irrit. 2; H315: $35 \% \le C < 50 \%$ Ox. Liq. 2; H272: $50 \% \le C < 70 \%$
Ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Eye Irrit. 2, H319: C ≥ 50 %

The full wording of H-statements is listed in Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If you do not feel well after exposure or if the problem persists, seek medical attention. If the victim is unconscious, place him/her into the recovery position on his/her side and get medical attention. Do not administer anything orally to an unconscious person.

In life-threatening conditions, resuscitation should be performed:

The victim is not breathing – rescue breathing must be performed immediately

Cardiac arrest - an indirect heart massage must be initiated immediately

Unconsciousness – it is necessary to place the victim into the recovery position on his/her side

In case of	Remove the victim to fresh air, keep the person calm and warm. Depending on the situation, the	
inhalation:	following can be recommended: rinsing the oral cavity or nose with water and medical	
	treatment.	

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			ong-term exposure, wash the contaminated skin with lukewa ating cream. Seek medical attention if problems occur.	urm water, then apply
	In the event of contact with eyes: Remove contact lenses, if present and easy to do. Rinse your open eyes with water for abo minutes. Do not rinse with a strong stream of water – there is a risk of corneal injury. Seek professional medical attention immediately.			
	After ingestion:		he mouth with water, drink 1–2 dl of water. Do not induce von immediately.	omiting. Get medical
4.2			s and effects, both acute and delayed eyes, there is a risk of eye irritation.	
4.3			ate medical attention and special treatment needed specified. Treatment is symptomatic.	
SEC	TION 5: Firefigh	ting me	easures	
5.1	Extinguishing med	dia –		
	Suitable extinguishing media: Unsuitable		dioxide (CO ₂), extinguishing powder, water jet, water mist	
	extinguishing media:	Strong	stream of water	
5.2	Special hazards arising from the substance or mixture The mixture is classified as flammable. In case of fire, irritating, toxic and harmful combustion products may be formed. In case of fire, the following can be released: carbon oxides and other dangerous gases.			
	Do not breathe explosion and fire gases. Choose protective equipment according to the extent of the fire. Adequate protective self-contained breathing mask and, where appropriate, overall protective clothing. Cool the products in closed containers that are close to the fire with water. If possible, remove products in undamaged packaging from the hazard area. Keep the contaminated water from fire extinguishing separately and do not discharge it into sewers. Dispose of fire-fighting water or used extinguishing agents together with combustion residues in accordance with applicable regulations.			
	TION 6: Acciden			
6.1	6.1.1. For non-eme Keep unauthorized emergency centre (smoking is prohibit 6.1.2. For emergen Ensure sufficient vo	ergency j person fire brig red until cy respo entilation	s out of the affected area. Isolate the hazard area and d gade, police). Do not touch spilled material. During and after thoroughly washed with soap and warm water.	er work, eating, drinking and
6.2	Environmental precautions Prevent product from entering drains, surface or ground water (by closing, sealing or covering sewers and sealing any cracks on them). In case of accidental leakage of a large quantity of the product into a sewerage or watercours inform the competent authorities.			
6.3	Methods and material for containment and cleaning upLarge spillage: Drain the product.Small spillage: Absorb with suitable absorbent material: Vapex.Collect into a suitable labelled container and hand over to a specialized disposal company.			ny.
6.4	See Section 7 for information on safe handling, see Chapter 8 for information on personal protection equi		nal protection equipment, see	
SEC	chapter 13 for dispo TION 7: Handlin			
	1	-	-	
7.1		ation and	ling d air extraction at the workplace. Do not inhale aerosols. Ave o not drink, eat or smoke while using the product. Use perso	

		ccordance with Regulati	CTY DATA SHEE' on (EC) No 1907/2006 of th nt and of the Council			
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 7.2 Conditions for safe stor Store in original tightly of smoke in places where the Do not store together with 7.3 Specific end use(s) 	closed conta he product i	uners in a well-ventil s stored and used. Pro	ated, dry and cool place ptect against direct sunli			
Virucide – TP 01 SECTION 8: Exposure co	ntrols/ner	sonal protection				
3.1 Control parameters		sonar protection				
Exposure limits accordin	ng to Govern	nment Regulation No	. 361/2007 Coll., as am	ended:		
Substance name (comp		CAS	PEL mg/m ³	NPK-P mg/m ³	Note	
Hydrogen peroxide		7722-84-1	1	2	Ι	
ethanol		64-17-5	1,000	3,000	-	
Glycerol, mist		56-81-5	10	15	-	
I – irritates mucous men	ibranes (eye	es, respiratory tract) o	or skin			
DNEL, PNEC – informa	tion not ave	vilable				
3.2 Exposure controls						
Where there is the possil least a suitable shower) i The monitoring procedu	Ensure sufficient ventilation. Do not eat, drink or smoke while working. Where there is the possibility of chemical splashes to the eye, it is advisable to set up an eye rinse fountain (or at least a suitable shower) in the workplace to provide first aid. The monitoring procedure for the content of substances in the air of workplaces and specifications of protective equipment are determined by the worker responsible for occupational safety and health.					
Occupational exposure	controls	*	· ·			
Respiratory protection:		-P cannot be observe	ed, use respiratory prote	ction.		
Eye protection:			ect your eyes if there is			
Hand protection:		quired. In case of long	g-term exposure, use pr	*	tant to the	
Skin protection:	Protect	tive occupational clot	hing and footwear			
<i>Environmental exposur</i> Compliance with handlin products into watercours on Waters). Ensure that the product i	ng and stora ses, soil and	sewers (see the cond				
ECTION 9: Physical and	chemical	properties				
.1 Information on basic p	hysical and	chemical propertie	S			
State:			liquid			
Colour:			colourless			
Odour:				alcoholic		
Odour threshold:				Information not available		
pH:			Information not available			
1	oint (°C).		Information not available			
	Melting point/freezing point (°C): Initial boiling point and boiling range (°C):		Information not available			
	ooning rang	,c (C).				
	Flash point:		Flammable substance (12 for ethanol)			
	Evaporation rate		Information not available			
	Flammability:		Information not available			
Explosion or flammabili	-	upper limit (% vol.):				
		lower limit (% vol.):	: Information not available			
Vapour pressure			Information not availat			
Vapour density			Information not available			
Density (at 20 °C):			Information not available			
Solubility in water			miscible			
Partition coefficient: n-o	ctanol/wate	r	Information not availab	hle		

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	Auto-ignition temperature:	Information not available			
	Decomposition temperature:	Information not available			
	Viscosity – dynamic:	Information not available			
	Explosive properties:	Not explosive			
	Oxidising properties:	It has weak oxidizing properties			
.2	Other information				
	Information not available				
SEC	TION 10: Stability and reactivity				
	Reactivity Stable under normal storage and handling c	conditions.			
0.2	Chemical stability The mixture is stable under normal ambien pressure.	t and anticipated storage and handling conditions of temperature and			
0.3	Possibility of hazardous reactions Hazardous reactions with: oxidizing agents	, alkali metals, peroxides, acids, chlorides.			
0.4	Conditions to avoid High temperature, sources of ignition.				
		alogen, halogen compounds, chromium oxide.			
0.6	Hazardous decomposition products reaction with alkali metals – flammable hydrogeneric thermal decomposition – CO	drogen is released			
SEC	TION 11: Toxicological information				
1.1	Information on toxicological effects				
	LD50, oral, rat = 1,193–1,270 mg/kg <u>Ethanol (CAS 64-17-5)</u> LD50, oral, rat (mg/kg): 7,060 LD50, dermal, rabbit (mg/kg): 6,300 LD50, inhalation, rat, for gases and vapours (mg/l): 20,000				
	 (b) Skin corrosion/irritation Available information suggests that the criteria for this classification have not been met. Ethanol rabbit: 20 mg/24 h – MOD (moderately irritating) rabbit: 400 mg – MLD (mildly irritating) 				
	 (c) Serious eye damage/eye irritation Causes serious eye irritation. Ethanol rabbit: 100 mg/s – MOD (moderately irritating) rabbit: 500 mg – SEV (severely irritating) 				
	(d) Respiratory/skin sensitisation Available information suggests that the criteria for this classification have not been met.				
	(e) Germ cell mutagenicity Available information suggests that the criteria for this classification have not been met.				
	(f) Carcinogenicity Available information suggests that the criteria for this classification have not been met.				
	(g) Reproductive toxicity Available information suggests that the criteria for this classification have not been met.				
	h) Specific target organ toxicity – single Available information suggests that the	e exposure e criteria for this classification have not been met.			
	i) Specific target organ toxicity - repeating Available information suggests that the	ated exposure ne criteria for this classification have not been met.			

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j) Aspiration hazard

Available information suggests that the criteria for this classification have not been met.

Other information: May cause skin irritation on prolonged skin contact. May irritate mucous membranes. In case of eye contact, it may cause eye damage. It degreases the skin, creating small cracks that allow the infection to enter. After ingestion, it is rapidly absorbed through the gastric mucosa and enters the bloodstream. Vapours (in high concentration) are irritating to the eyes and mucous membranes of the respiratory system, they have a narcotic effect.

SECTION 12: Ecological information

	1101 (12: Ecological Inform					
12.1	Toxicity					
	The mixture is not classified as dangerous for aquatic life.					
	Hydrogen peroxide (CAS 7722					
	Toxicity to fish:	LC50, 96 h, Oncorhynchus mykiss = 188 mg/kg				
	Toxicity to invertebrates:	EC50, 48 h, Daphnia magna = 13 mg/l				
	Toxicity to algae:	IC50, 72 h, Selenastrum capricornutum = $11-15$ mg/l				
	Ethanol (CAS 64-17-5)					
	to fish: LC50, 96 h, Nepomis macrochirus: 1,040 mg/l LC50, 96 h, Cyprinus carpio: 1,520 mg/l					
		hephales promelas: 1,030–14,200 mg/l				
	to invertebrates: EC50, 48 h, E					
	to algae: IC50, 72 h, 5,000 mg					
	<u>Glycerol (CAS 56-81-5)</u>	-				
	Toxicity to fish: 5,000 mg/l					
	Toxicity to algae: 2,900 mg/l					
12.2	Persistence and degradability	Y .				
	The mixture is degradable.					
12.3	Bioaccumulative potential					
	Bioaccumulation is unlikely.					
12.4	Mobility in soil					
	Information not available					
12.5	Results of PBT and vPvB ass	essment				
		s having PBT or vPvB properties.				
12.6	Other adverse effects					
	Avoid release to the environme	ent.				
SEC'	TION 13: Disposal consider					
SEC' 13.1						
	TION 13: Disposal consider Waste treatment methods	ations				
	TION 13: Disposal consider Waste treatment methods (a) Suitable methods for dispo	cations osing of the substance or preparation and its contaminated packaging:				
	TION 13: Disposal consider Waste treatment methods (a) Suitable methods for dispo When disposing of produc	ations				
	TION 13: Disposal consider Waste treatment methods (a) Suitable methods for dispo When disposing of produc Act, as amended by all in details of waste management	exations posing of the substance or preparation and its contaminated packaging: ext residues and its packaging, it is necessary to proceed in accordance with the Waste mplementing regulations (decree establishing the Waste Catalogue; Decree on the ent). If this preparation and its packaging become waste, the end user must assign the				
	TION 13: Disposal consider Waste treatment methods (a) Suitable methods for dispo When disposing of produc Act, as amended by all i details of waste manageme corresponding waste code	exations posing of the substance or preparation and its contaminated packaging: ter residues and its packaging, it is necessary to proceed in accordance with the Waste mplementing regulations (decree establishing the Waste Catalogue; Decree on the ent). If this preparation and its packaging become waste, the end user must assign the according to the Waste Catalogue. Classification according to the Waste Catalogue				
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	Air t	ransport (ICAO/IATA):				
14.3	Transport hazard class(es):						
	Inlar	nd transport (ADR)	Rail transport (RID)	Transport by sea (IMDG):	Air transport (ICAO/IATA):		
	3		3	3	3		
4.4		king group	Γ				
	Inla	nd transport (ADR)	Rail transport (RID)	Transport by sea (IMDG):	Air transport (ICAO/IATA):		
		II	II	II	II		
4.5							
	The mixture is not dangerous for the environment during transport.						
4.6		cial precautions fo	r user				
	-	ety mark: 3					
4.7	-	-	ording to Annex II of M	arpol and the IBC Code			
		applicable					
	1	N 15: Regulatory					
15.1 15.2	Reg Gov	ulation (EC) No. 19	007/2006 (REACH); Regu n No. 361/2007 Coll.; Was sment	legislation specific for the subs ilation (EC) No. 1272/2008 (CL ste Act as amended			
SEC		N 16: Other info					
	(a)	19 March 2020: Is	sue of safety data sheet in	accordance with EC 1907/2006	REACH		
	. ,		abbreviations and acrony				
		DNEL	Derived No Effect Lev	el (exposure levels beneath whi	ch a substance does not harm		
		DNEL	human health)				
		PNEC	Predicted No Effect Co adverse effects will mo	oncentration (the concentration of ost likely not occur)	of a substance below which		
	Einecs European Inventory of Existing Commercial Chemical Substances						
		CAS	Chemical Abstracts Ser	rvice			
		IMDG	International Maritime	Dangerous Goods Code			
		IATA	International Air Trans	port Association			
		ICAO	International Civil Avi	viation Organization			
		PEL	Permissible Exposure I	Limit, long-term (8 h)			
		NPK-P	Highest permissible air	borne concentration, short-term	limit		
		ADR	European Agreement c	oncerning the International Carr	riage of Dangerous Goods by Roa		
		RID	Regulations concerning	g the International Carriage of D	angerous Goods by Rail		
		CLP	Regulation (EC) No. 12	272/2008			
		REACH	Regulation (EC) No. 1	907/2006			
		PBT	Persistent, Bioaccumul	ative and Toxic substance			
		vPvB	very Persistent and ver	y Bioaccumulative substances			
		LD50, LC50, EC50, IC50	the concentration of the test	e substance that is lethal to 50 %	of the organisms in the toxicity		
		Flam. Liq. 2	Flammable liquids – C	ategory 2			
		Ox. Liq. 1, 2	Oxidizing liquids – Car	tegory 1, 2			
		Acute Tox. 4	Acute toxicity (oral, in				
		Skin Corr. 1A, 1B	•				
		Skin Irrit. 2	Skin corrosion/irritatio				
		Eye Dam. 1	Serious eye damage/irr				
		Eye Irrit. 2	Serious eye damage/irr				
		STOT SE 3		oxicity (STOT) – single exposur	e – Category 3, respiratory		

MATERIAL SAFETY DA	TA SHEET
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in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council Date of issue: 19 March 2020 Revision date:

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(c)	Important reference to State legislation, scier The classification of t method.	r. EC 1272/2008 – calculation	
(d)	H225 Highly flammal H271 May cause fire H272 May intensify f H302 Harmful if swal	or explosion; strong oxidiser ire; oxidiser lowed kin burns and eye damage tation eye damage eye irritation led	
(e)	Instructions for training	·	
(f)	knowledge, information and t and safer handling, storage, or clarification of the quality does not apply when used in at of this safety data sheet.		