

VILLACRYL S LIQUID

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SECTION 1. Ident	ification of the s	ubstance/mi	xture and of the company/undertaking				
1.1. Product identifie	<u>er</u>						
Code:	ide: V130L01; V130L02; V130L07; V130L08						
Product name:	VILLACRYL S LIQU	ILLACRYL S LIQUID					
1.2. Relevant identified uses of the substance or mixture and uses advised against							
Intended use:	For professional	use only. Liquid	d component for self-curing resin for denture repairs VII	LACRYL S.			
1.3. Details of the su	pplier of the safety of	data sheet					
Name		Everall7. z o.o					
Full address		Augustówka 1	4				
District and Country		02-950 Warsza	awa				
		Poland					
		tel. +48 22 858	3 82 72				
		fax +48 22 642	2 07 14				
e-mail address of the	competent person	andrzej.ceglins	ski@everall7.pl				
responsible for the Sa	afety Data Sheet						
1.4. Emergency telep	hone number						
For urgent inquiries r	efer to:		Fire Service tel. 998, 112 or nearest local branch of Fire Toxicological information in Poland 042 631 47 24	Brigade.			
SECTION 2. Hazar	rd identification						
2.1. Classification of	the substance or mi	<u>xture</u>					
EC Regulation 1272/2	2008 (CLP) and subse	equent amendm	nents and adjustments.				
\wedge							
	GHS02						
Flam.Liq.2	H225 Highly flam	nable liquid and	vapour.				
\land							
$\langle 1 \rangle$	GHS07						
\sim							
Skin Irrit. 2	H315 Causes skin i	irritation.					
Skin Sens. 1	H317 May cause a	n allergic skin re	eaction.				
STOT SE 3	H335 May cause r	espiratory irritat	tion.				
2.2. Label elements							
Labeling pursuant to The product is classifi	Regulation 1272/20 ied and labeled purs	08 (CLP) and fol uant to EC Regul	llowing amendments and adjustments. lation 1272/2008 (CLP).				
Hazard piktogramu:							
\wedge /	\sim						
< (%) <							
GHS02 GH	1507						
Signal words:	Danger						

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Contains: Methyl methacrylate					
Hazard statements:					
H225	Highly flammable liquid and vapour.				
H315	Causes skin irritation.				
H317	May cause an allergic skin reaction.				
H335	May cause respiratory irritation.				
Precautionary state	ments:				
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.				
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.				
P280	Wear protective gloves/protective clothing/eye protection/face protection.				
P501	Dispose of contents/container to an authorized waste contractor.				
P302 + P352	IF ON SKIN: Wash with soap and water.				
2.3. Other hazards					
On the basis of availa	able data, the product does not contain any PBT or vPvB.				
SECTION 3. Com	position/information on ingredients				
3.1. Substances					
Not applicable.					

3.2. Mixtures Contains:

Identification / Ingred	lients	Classification	Conc. %
Methyl methacrylate;	MMA		
CAS No.	80-62-6	Flam.Liq.2, Skin Irrit. 2; Skin Sens. 1; STOT SE 3; H225, H315 H317 H335	>90%
EC No.	201-297-1		
INDEX No.	607-035-00-6		
Reg. No.	01-2119452498-28-XXXX		
Ethylene dimethacryl	ate; EGDMA		
CAS No.	97-90-5	Skin Sens. 1; STOT SE 3; H317, H335	up to 10%
EC No.	202-617-22		
INDEX No.	607-114-00-5		
Reg. No.	01-2119965172-38-XXXX		
N,N-dimethyl-p-toluio	line, DMPT		
CAS No.	99-97-8	Acute toxicity Inhalation 3; Acute toxicity Dermal 3;,	< 1%
EC No.	202-805-4	H301, H311, H331, H373, H412	
INDEX No.	612-056-00-9		
Reg. No.	01-2119956633-31-XXXX		

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases are given in section 16 the Safety Data Sheet.

SECT	ION 4. Firs	t aid measures					
<u>4.1. D</u>	escription of	first aid measures					
EYES:		lemove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids ully. If problem persists, seek medical advice.					
SKIN:		Remove contaminated clothing. Immediately wash skin with plenty of soap and water. Flush for 10 minutes. In the event of persistent irritation, get medical advice/attention. Wash contaminated clothing before using it again					
INHAL	ATION:	Remove person to fresh air and keep comfortable for breathing. If the person stops breathing, administer artificial					
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 respiration. Get medical advice/attention.

 INGESTION:
 Do not give anything by mouth to an unconscious person. Immediately rinse mouth with water and, than drink 200 – 300 ml of water. Do not induce vomiting. Get immediate medical advice/attention. (show the packaging or label).

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

Direct inhalation exposure to vapours and substances released into the atmosphere can cause respiratory irritation, dizziness, drowsiness, and at high concentrations - temporary blackouts or loss of consciousness. Repeated frequently effects on human lead to a reduction of resistance and the emergence of an allergic reaction.

In sensitive people may occur a strong allergic reactions to the very small amounts of product

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

Treat symptomatically. In the event of swallowed call a poison center.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Ordinary extinguishing equipment: carbon dioxide, foam, extinguishing powder and coolant mist, sand

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

During burning may release into the air: carbon oxide, carbon dioxide and nitric oxide.

The vapor of mixture and air are explosive mixture. Under the influence of high temperature the mixture undergoes rapid polymerization reaction causing an pressure increase in container of the mixture.

5.3. Advice for firefighters

GENERAL INFORMATION

In case of fire move container of mixture to a safe place. Use jets of water to cool the container to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire-fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Do not breathe vapours. Provide proper ventilation. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the Safety Data Sheet) to prevent any contamination of skin, eyes and personal clothing.

6.2. Environmental precautions

Eliminate all sources of ignition, protect manhole cover. The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Absorb using universal absorbent materials (sand, diatomeous earth, sawdust). Smaller quantities absorb with lignin. Keep in closed containers until disposal. Collect the leaked product into a suitable container. Dispose as hazardous waste. Evaluate the compatibility of the container materials referred to under Section 10 of the Safety Data Sheet.

Use ventilation in contaminated place with releases. Evaluate the incompatibility of the container materials referred to under Section 7 of the Safety Data Sheet. Disposal of contaminated material should be carried out in accordance with guidelines referred to under Section 13 of the Safety Data Sheet.

6.4. Reference to other section

Any other information about personal protection and disposal is provided in sections 8 and 13 of the Safety Data Sheet.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of the Safety Data Sheet. Avoid leakage of the product into the environment.

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Avoid contamination of skin, eyes and respiratory system. Avoid forming vapours and aerosols. Use only in well ventilated places. Provide

appropriate exhaust ventilation in the workplace. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.
 7.2. Conditions for safe storage, including any incompatibilities Store only in the original container, sealed container, in a dry and well ventilated place with temperature not exceeding 30°C. Keep away from sources of ignition and heat. Protect from UV radiation (solar). Keep away containers from any incompatible materials following in accordance with guidelines referred to under Section 10 of the Safety Data Sheet.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory refe	renc	es:												
OEL EU	-	C) irective (EU) 2	017/2	398; Dir	ective (E	U) 2017/1	.64; Comm	issio	n Directive 2	2009/161/6	U; Commissic	on Dire	ctive
		2	2006/15/EC; Directive 2004/37/EC; Commission				Directive	2000	/39/EC; Cor	nmission D	irective 91/32	22/EEC	2	
TLV-ACGIH		А	CGIH 2016											
SUBSTANCE NAME	: Met	hyl methac	rylate; MMA		_								_	
EC No.: 201-297-1	CA	S No.: 80 <u>-6</u>	2-6											
Occupational expos	sure O	EL												
Туре		Country			N	DS/8 h		N	DSCh/:	L5 min				
05				r	ng/m³		opm	mg/m ³		ppm 100				
OEL Derived No Effect L	aval	UE					50			100				
Derived No Effect L	evei													
DIVELOT DIVILE			v	Vorkers							Consumers			
Route of	Acu	te effects	Acute effect	Chron	ic	Chronic et	ffects	Acute	Acut	e effect	Chronic	Chronic effec	ts syster	nic
exposure	loca	ıl	systemic	effect	s local	systemic		effects	syste	emic	effects			
Oral				Not	reguired			local	NPI		NPI	NPI		
Inhalation	NPI		NPI	208 m	ig/m ³	208 mg/m	1 ³	NPI	NPI		104 mg/m	74.3 mg/m ³		
Dermal	1.5	mg/cm²	NPI	1.5 m	g/cm²	13.67 mg/	/kg	1.5	NPI		1.5	8.2 mg/kg bw	/day	
Dradiated No Effect	Cont	ontration	1			bw/day		mg/cm ²			mg/cm ²			
	conc	entration												
Freshwater					940 µg/l			1						
Marine water					940 ug/l	-								
Freshwater sedime	nt				5 74 mg/L									
Marine sediment					NFA									
Food chain					NPI									
Microorganisms in s	sewaa	e treatmer	nt		10 mg/L									
Soil		,			1.47 mg	/kg								
Air					NPI	-								
SUBSTANCE NAME	: Ethy	lene dimet	hacrylate; EGDM/	۱				1						
FC No.: 202-617-22		AS No • 97	-90-5											
Threshold value	C.	13 110 57-	50.5											
Туре		Country			N	IDS/8 h		Ν	IDSCh/	'15 min				
					mg/m³		ppm	mg/m ³	3	ppm				
EH40 WEL		UE			208		50	416		100				
Derived No Effect L	evel													
DNELS / DMEL				Norkors							Consumero			
Route of	Aci	ite effects	Acute effect	Route	e of	Acute eff	ects local	Acute	Ro	ute of	Acute	Acute effect	systemi	c
exposure	loc	al	systemic	expo	sure	noute en	2300 10001	effect systemic	exp	osure	effects loca		- yoterini	
Oral			-	Not	t required				NP		NPI	830 μg/kg bv	v/day	
Inhalation	NP		NPI	NPI		2.45 mg/	m³	NPI	NP		NPI	1.45 mg/m ³		
Dermal	VN	D	NPI	VND		1.3 mg/k	g bw/day	VND	NP		VND	830 μg/kg bv	v/day	
Predicted No Effect	Conc	entration												
PNECs														
Freshwater					139 μg/	Ĺ								
Marine water					13.9 µg,	/L								
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Freshwater sediment 1			1.6 mg/kg									
Marine sediment			160 µg/kg									
Food chain			NPI									
Microorganisms in sewage treatment			57 mg/L									
Soil					239 µg/	kg						
Air					NPI							
SUBSTANCE NAME:	N,N-0	dimethyl-p-t	toluidine, DMPT									
FC No : 202-805-4	CAS	No · 99-97-	8									
Threshold value	CAS	101. 55 57	0									
Туре		Country			ND	S/8 godz	N	IDSCh/1	.5 min			
OEL		UE		r	ng/m ³	ppm -	mg/m ³		ppm -			
Derived No Effect Le	evel											
DNELs / DMEL			v	Vorkers						Consume	arc	
Route of	Acu	te effects	Acute effect	Route	of	Acute effects local	Acute	Route	e of	Acute e	effects	Acute effect systemic
exposure	loca	al	systemic	expos	ure		effect	expo	sure	local		
Oral				Not	required		systemic	NPI		NPI		173.542 μg/kg bw/day
Inhalation	NPI		NPI	NPI		1.224 mg/m ³	NPI	NPI		NPI		301.812 μg/m ³
Dermal	NPI		NPI	NPI		694.167 µg/kg bw/day	NPI	NPI		NPI		292.522 μg/kg bw/day
Predicted No Effect	Conce	entration				511/003		I		I		
PNECs												
Freshwater					13.7 - 15	52.59 μg/L						
Marine water					13.7 - 15	52.59 μg/L						
Freshwater sedimen	ıt				45.378 -	48.245 mg/kg						
Marine sediment					45.378 -	48.245 mg/kg						
Food chain					NPI							
Microorganisms in s	ewag	e treatment			1 36 - 4	286 mg/l						
Soil	c wub	e treatment			18 677 -	200 mg/2						
Air					NDI	20.000 116/16						
Lagandi												
C) = CEUINGUINI	нлі	– Inhalah	le Fraction: R	FSD -	Posnira	hle Fraction: THOE	A – Thorac	ic Fra	ction			
VND = hazard id	lenti	fied but n	no DNEL/PNE	Cavail	able: NE	EA = no exposure e	xpected: N	IPI = n	o hazard id	dentified	d	
0.0 5		-1-	-		,		ļ ,					
8.2. Exposure co	ontr ada	<u>ois</u> nuato toc	shnical oquin	mont	must a	lwavs tako priorit	v over pe	rconal	protoctiv	o oquin	mont	make sure that the
workplace is we	auei II aii	red through	gh effective lo	nent ocal as	niration	iways take priorit	y over pe	ISUIIai	protectiv	e equip	ment,	make sure that the
In case of choos	sing	the perso	nal protective	equip	oment s	 eek advice from cl	nemical sup	pliers	if it is nee	ded.		
Personal protec	tive	equipme	nt must be CE	mark	ed, sho	wing that it compli	es with ap	plicabl	le standaro	ds.		
HAND PROTECT												
Protect hands v	with	work glo	ves during w	ork w	ith this	product. Work wi	th this pro	oduct	using the	gloves.	The w	ork gloves should be
checked before	use	e. Use the	e proper tech	inique	for rer	noving gloves (wi	thout touc	hing t	he outer	surface	of the	glove) to avoid skin
contact with th	is p	roduct. R	emoval of co	ntami	nated g	loves after use in	accordanc	e with	n applicab	le regul	ations	and good laboratory
practice.												
Chosen work glo	oves	must me	et the specifi	cation:	s of the	directive 89/686/I	EEC and sta	indarc	I EN 374.			
When using in s	aur s	ion or aft	mum thicknes	55: U.I 2 otho	1 mm, E r substa	preaktnrough time	: 480 min. conditions	than	aivon in FN	1374 cc	ontact	the supplier of gloves
approved in the	> FU	This rec	ommendatio	n is fo	r advice	only and must h	e evaluate	d by a	a health a	nd safet	tv sner	ialist who knows the
specific situatio	n of	the inten	ided use by o	ur clie	nts. Thi	s recommendation	should no	t be ii	nterpreted	as a pr	oposal	for the approval of a
specific use sce	nario) .							•		•	
SKIN PROTECTIO	ЛС											
Wear category	l pro	ofessional	long-sleeved	overa	lls and s	afety footwear (se	e Directive	e 89/6	86/EEC an	d standa	ard EN	ISO 20344). The type
of protective e	quip	ment mu	ust be selected	ed acc	cording	to the concentra	tion and a	moun	it of the d	dangero	ous sub	ostances The type of
workplace Was	h hc	ndv with s	oap and wate	accor er afte	ung το r remov	ing the protective	n anu am clothing	ount	or the da	ingerous	s subs	tance in the specific
tronspiace. Was				. unter	i i ciniov		с.оспін <u>ь</u> .					
EYE PROTECTIO	N dc ((100 ma) - 1	d cofety -l-			+ha a		+;f;!		ordor -	-الە:	annlianhla <u>na sul-sta</u> ra
	us (\ 11¢^) or EN 14	u salety glass	es. 10	protect	. The eyes use equi	pment cer	unea	use in acc	Jiuance	with a	applicable regulations
uch as NIOSH (USA) or EN 166 (EC).												

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RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter or universal, whose class (1, 2 or 3) must be chosen according to the limit of use concentration (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odorless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties						
9.1. Information on basic physical and chemical proper	9.1. Information on basic physical and chemical properties					
Appearance	Liquid					
Color	Colorless					
Odour	Typical for methacrylic acid esters					
Odour threshold	Information not available					
рН	Not applicable					
Melting point / freezing point	-48,2°C					
Initial boiling point	> 100°C					
Boiling range	Information not available					
Flash point	10°C					
Evaporation Rate	Information not available					
Flammability (solid, gas)	Information not available					
Lower flammability limit	Information not available					
Upper flammability limit	Information not available					
Lower explosive limit	2,1% vol.					
Upper explosive limit	12,5% vol.					
Vapour pressure	38,7 hPa					
Vapour density	>1 in 20°C					
Relative density	940 kg/m ³					
Solubility in water	15,9 g/l					
Partition coefficient: n-octanol/water	1,38					
Auto-ignition temperature	430°C					
Self-accelerating decomposition temperature (SAPT)	> 50°C					
Decomposition temperature	Information not available					
Viscosity	0,23 mPa s					
Explosive properties	Information not available					
Oxidising properties	Information not available					
9.2. Other information						
Information not available						

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SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

Liquid is stabilized by hydroquinone (CAS no. 123-31-9). Nevertheless, the occurrence of self-polymerization reaction is possible after the expiry date, if the storage temperature is exceeded significantly or in case of direct and strong influence of UV radiation

10.3. Possibility of hazardous reaction

Uncontrolled polymerization reaction in the presence of factors which initiate occurration of free radicals. The polymerization reaction is exothermic (heat releasing) and in uncontrolled conditions proceed very vigotous.

10.4. Conditions to avoid

The usual precautions used for chemical products should be respected. Keep away from temperatures exceeding 40°C, direct sunlight and heat sources

10.5. Incompatible materials

Strong oxidants, substances that generate free radicals, reducing substances, heavy metal ions, heat sources

10.6. Hazardous decomposition products

Information not available.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Toxicological information on the interaction of substances in mixture are not available, possible health effects are listed based on the properties of the substances contained in the mixture in accordance with the applicable regulations regarding classification. Information on possible health effects shall be included regarding concentrations of hazardous substances referred to under Section 3 of the Safety Data Sheet.

Metabolism, toxicokinetics, mechanism of action and other information: Data for mixture is not available. The product is mixture of methacrylic acid esters. According to literature data MMA and the other methacrylate esters are readily absorbed by all routes and rapidly hydrolyzed by carboxylesterases to methacrylic acid (MAA) and the respective alcohol. A rapid elimination of the substance is expected, mainly in urine, exhaled air (resulting from the conversion into acrylic acid and then into CO₂) and with feces. (ECHA Dossier)

Information on probable routes of exposure: WORKERS: inhalation, skin contact.

Delayed, immediate and chronic effects of short and long term exposure

Inhalation: Vapours may cause nasal irritation with the possibility of runny nose, as well as throat irritation with coughing in some cases, especially in people with particularly sensitive respiratory system. May cause irritation.

Ingestion: Moderate irritation of the mouth, throat, esophagus and stomach, nausea, vomiting, diarrhea, dizziness, drowsiness.

Skin: Contact with liquid may cause from mild to severe irritation, depending on the duration of contact, with itching and excessive drying of the skin. Sensitization may occur in the form of harmless white or brown patches on the skin

Eyes: Fluid may cause tearing, burning sensation and conjunctival redness. In addition, the vapours may have a slight irritating effect

Interaction effects: None

Acute toxicity

Ingestion: LD50 oral (rat) > 2.000 mg/kg (Calculated based on known LD50 values of essential components observing the additivity rule). Based on available data, it does not meet the classification criteria for this hazard class.

Skin: LD50 skin (rabbit) > 5.000 mg/kg (Calculated based on known LD50 values of essential components observing the additivity rule). Based on available data, it does not meet the classification criteria for this hazard class

Skin corrosion / irritation: Causes skin irritation Category 2 (Estimated according to the rule of additivity)

Serious eye damage / eye irritation: Based on available data, it does not meet the classification criteria for this hazard class

Respiratory or skin sensitization: Causes skin sensitization Category 1

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction)

Mutagenicity: Based on available data, it does not meet the classification criteria for this hazard class.

Carcinogenicity: No component of this product present in an amount above 0.1% is identified by IARC as probable, possible or confirmed human carcinogen. Based on available data, it does not meet the classification criteria for this hazard class.

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Tovicity to concoluction. Decod on evaluate the details	ot most the slassifi-	ation at	ritoria for this hazard alass			
Toxic effects on target organs – single exposure: Inhalatic	not meet the classific	ation cr	nteria for this nazard class.			
Toxic effects on target organs – repeated exposure: May	Foxic effects on target organs – repeated exposure: May cause drowsiness or dizziness					
Aspiration hazards: Based on available data, it does not m	eet the classification	criteria	for this hazard class.			
ΛΕΤΗΥΙ ΝΛΕΤΗΛΟΩΥΙ ΑΤΕ· ΝΛΝΛΑ						
LD50 (oral) 7 900 mg/kg. (rat. standard method of acute t	oxicity testing) EC	HA Dos	ssier. MSDS of supplier			
<u>LC50 (inhalation):</u> 29.8 mg/L (rat, standard method of act	te toxicity testing) - I	CHA Do	ossier			
LD50 (skin) > 5 000 mg/kg (rabbit, equivalent or similar m	ethod to OECD 402) -	ECHA D	Dossier			
Skin corrosion / irritation						
Skin irritation: is non-irritant (rabbit, FDA; according to Dr	aize Test) - ECHA Dos	sier				
Data in relation to people						
Patch study with volunteers: 18/20 shown erythema and	lermatitis after expo	sure to	5% methyl methacrylate in paraffin or olive oil.			
Although a clear distinction between sensitization and irri	ation is difficult and	the exp	oosure period is much longer than usual in			
irritation tests, the results suggest that MMA may potenti Record on available data, skin irritation category 2	ally cause skin irritati	on in hi	umans.			
Eve irritation: is non-irritant (rabbit 72h EDA: according t) Draize Test) - FCHA	Dossie	r			
Perminetery or skin consistention		2 33510				
Respiratory or skin sensitization Skin sensitization: It sensitizes the skin (mouse, equivalent	or similar method to	OECD	429) - ECHA Dossier			
		2200				
I OXIC ETTECTS ON TARGET ORGANS	ic effects on target o	gane C	ategory 3 MSDS of supplier			
Respiratory irritation	ic effects off target o	gans C	acegory 5. Mises of supplier			
Data in relation to people						
Occupational exposure: acute and reversible irritation at o	oncentrations excee	ding 10	0 ppm (approx. 0,410 mg / L; (Coleman, 1963,			
Roehm 1994, Muttray and others 1997, Muttray and othe	rs, 2007) ECHA Dossi	er				
<u>STOT - repeated exposure</u> Based on available data, it does	not meet the classifi	cation o	criteria for this hazard class.			
CMR effects (carcinogenicity, mutagenicity and toxicity t	reproduction)					
Genetic toxicity in vitro:				_		
Gene mutation in bacteria: S. typhimurium TA97, TA98, T	100, TA1535, with a	nd with	out metabolic activation: negative (method NTI	Ρ,		
Gene mutation in mammalian cells: Mouse lymphoma ass	av: weakly positive w	ith and	without metabolic activation (Litton 1981)			
Test HPRT, cells V79: Ambiguous to weakly positive witho	it metabolic activatio	on (Schv	weikl and others, 1998)			
Mouse lymphoma assay, clastogenicity test: positive with	out metabolic activat	ion, ma	inly small colony mutants, indicating deletion			
mutations instead of gene mutations (Moore and others,	1988)					
Cytogenicity in mammalian cells: Chromosome aberration	assay in cells CHO: p	ositive	at cytotoxic doses (Anderson and others, 1990)) -		
ECHA Dossier						
Genetic toxicity in vivo:						
Chromosome aberration test, rat: negative (zeneca) for 1990	Zeneca / ICI 1976. 1	979)				
Micronucleus test, mouse: negative (Hachiya and others,	.982) - ECHA Dossier	- 1				
Based on available data, it does not meet the classification	criteria for this haza	rd class	s ECHA Dossier, MSDS of supplier			
Carcinogenicity: It wasn't detected carcinogenic potential	in reliable inhalation	studies	s on rats, mice, dogs and hamsters. Based on			
available data, it does not meet the classification criteria f	or this hazard class	ECHA D	ossier, MSDS of supplier			
Toxicity to reproduction: It wasn't observed effects on fe	tility or developmen	al toxic	city in several reliable studies on rats, rabbits an	nd		
mice, even at toxic doses to nursing mothers. Based on av	ailable data, it does r	ot mee	et the classification criteria for this hazard class.	-		
ECHA Dossier						
Aspiration toxicity: No data available.						
ETHVI ENE DIMETHACRYLATE: EGDMA						
LD50 (orally): $> 2000 \text{ mg/kg}$. (rat. OECD 402) - ECHA Doss	er					
LD50 (applied to the skin): 2 000 mg/kg, (rat, OECD 402) -	ECHA Dossier					
Skin corrosion / irritation						
Skin irritation: is non-irritant (rabbit, FDA; according to Dr	aize Test) - ECHA Dos	sier				
Eye irritation: is non-irritant (rabbit,72h, FDA; according to	Draize Test) - ECHA	Dossier				
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Respiratory or skin sensitization

Skin sensitization: It sensitizes the skin (mouse, equivalent or similar method to OECD 429) - ECHA Dossier

Toxic effects on target organs

<u>STOT - single exposure</u>: Based on available data shows toxic effects on target organs Category 3. MSDS of supplier <u>STOT - repeated exposure</u>: Based on available data, it does not meet the classification criteria for this hazard class

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction)

Genetic toxicity in vitro:

Based on available data, it does not meet the classification criteria for this hazard class. - ECHA Dossier <u>Genetic toxicity in vivo</u>:

Based on available data, it does not meet the classification criteria for this hazard class.- ECHA Dossier, MSDS of supplier

Carcinogenicity: No carcinogenicity study is available for EGDMA. For the alcohol metabolite ethylene glycol data are available as well as from the methacrylic metabolite donor substance methyl methacrylate (donor for methacrylic acid). Available data doesn't show carcinogenic properties of the substance. Therefore, EGDMA classification as carcinogenic is not required in accordance with GHS EC Regulation No. 1272/2008. Based on available data, it does not meet the classification criteria for this hazard class.- ECHA Dossier, MSDS of supplier

Toxicity to reproduction: There are no data available for EGDMA itself. For the evaluation of EGDMA the data of the primary metabolite, HEMA, and the further metabolites methacrylic acid (and its donor substance methyl methacrylate) and ethylene glycol are used. In the body, HEMA is the first metabolite resulting from the primary ester hydrolysis of EGDMA. Subsequent ester hydrolysis produces methacrylic acid and ethylene glycol. Methyl methacrylate hydrolyses rapidly to methacrylic acid and thus serves as methacrylic acid donor in several test systems investigating systemic effects.

Based on available data, it does not meet the classification criteria for this hazard class.- ECHA Dossier

Aspiration toxicity: No data available.

N,N-DIMETHYL-P-TOLUIDINE (DMPT)

Acute toxicity

<u>LD50 (orally</u>): 139 mg/kg , (mouse, literature) - ECHA Dossier <u>LC50 (inhalation)</u>: 1400 mg/m³ (rabbit, literature) - ECHA Dossier. <u>LD50 (applied to the skin)</u>: > 2 000 mg/kg (rabbit, OECD 402) - ECHA Dossier

Skin corrosion / irritation

<u>Skin irritation</u>: is non-irritant (rabbit, OECD 404) - ECHA Dossier <u>Eye irritation</u>: is non-irritant (rabbit,, OECD 405) - ECHA Dossier, MSDS of supplier

Respiratory or skin sensitization

Skin sensitization: not sensitizing (rabbit, other) - ECHA Dossier, MSDS of supplier

Toxic effects on target organs

STOT - single exposure: Based on available data, it does not meet the classification criteria for this hazard class. ECHA Dossier, MSDS of supplier

STOT - repeated exposure: Based on available data, N,N-dimethyl-p-toluidine is classified as STOT RE 2. ECHA Dossier, MSDS of supplier

CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction)

<u>Genetic toxicity in vitro</u>: negative (bacteria, literature) - ECHA Dossier

Genetic toxicity in vivo: No data available.

Based on available data, it does not meet the classification criteria for this hazard class - ECHA Dossier, MSDS of supplier

Carcinogenicity: Based on available data, it does not meet the classification criteria for this hazard class - ECHA Dossier, MSDS of supplier

Toxicity to reproduction: Based on available data, it does not meet the classification criteria for this hazard class - ECHA Dossier

Aspiration toxicity: No data available.

SECTION 12. Ecological information

When using the product comply with good working practices, avoid releasing of the substance to environment. Inform the competent authorities in case of penetrate into the soil, sewer system or come into contact with surface water, ground water or vegetation.

12.1. Toxicity

METHYL METHACRYLATE; MMA

LC50 for freshwater fish: 0.42 mg/l, 96h, OECD 203, MSDS of supplier

LC50 for freshwater fish: 0.034 mg/L, 96h, (measured, TWA) (Oncorhynchus mykiss), ECHA Dossier

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NOEC = 0,017 mg / L, 96h (measured, TWA) (Oncorhynchus my							
NOEC = 0,017 mg / L, 96h (measured, TWA) (Oncorhynchus mykiss), ECHA Dossier EC50 / LC50 for freshwater invertebrates: 0,35 mg / L, 48h (measured, TWA) (Daphnia magna), ECHA Dossier NOEC = 0,35 mg / L, 48h (measured, TWA) (Daphnia magna), ECHA Dossier							
EC50 for freshwater algae: 0.12 mg/l, 72h, (measured geometric mean) (Desmodesmus subspicatus), ECHA Dossier EC10 or NOEC for freshwater algae: 0.12 mg/l, 72h, (measured geometric mean) (Desmodesmus subspicatus), ECHA Dossier EC10 or NOEC for microorganisms: 23.9 mg/L, ECHA Dossier							
ETHYLENE DIMETHACRYLATE; EGDMA							
ETHYLENE DIMETHACRYLATE; EGDMA							
LC50 for freshwater fish: 15.95 mg/l, 48h, OECD 203, ECHA Dossier EC50 / LC50 for freshwater invertebrates: 44,9 mg / L, 48h (OECD 202, Daphnia magna), ECHA Dossier EC10, LC10 or NOEC for freshwater invertebrates: 7.22 mg/L, 21d (OECD 211, Daphnia magna), ECHA Dossier EC50 for freshwater algae: 17.3 mg/l, 72h, (OECD 201, Pseudokirchneriella subcapitata), ECHA Dossier EC10 or NOEC for freshwater algae: 6.93 mg/l, 72h, (OECD 201, Pseudokirchneriella subcapitata), ECHA Dossier EC50 for microorganisms: 570 mg/L, (equivalent or similar to OECD 209) ECHA Dossier							
N,N-DIMETHYL-P-TOLUIDINE (DMPT)							
LC50 for freshwater fish: 52.8 mg/L, 96h, Pimephales promelas- ECHA Dossier, MSDS of supplier EC50/LC50 for freshwater invertebrates: 23.758 mg/L, 48h Daphnia magna, ECHA Dossier, MSDS of supplier EC50 for freshwater algae: 15.481 mg/l, 96h, ECHA Dossier, MSDS of supplier							
12.2 Persistence and degradability		<i>,</i> ,,,,,,,					
Readily biodegradable ECHA Dossier							
Readily biodegradable (100%) ECHA Dossier							
N,N-DIMETHYL-P-TOLUIDINE (DMPT)							
Readily biodegradable (50%), under test conditions no biodegradation observed (50%), ECHA Dossier, MSDS of supplier							
Readily biodegradable (50%), under test conditions no biodegra	dation observed (50%)	ECHA Dossier, MSDS of supplier					
Readily biodegradable (50%), under test conditions no biodegra 12.3. Bioaccumulative potential.	dation observed (50%)	ECHA Dossier, MSDS of supplier					
Readily biodegradable (50%), under test conditions no biodegra 12.3. Bioaccumulative potential. <i>METHYL METHACRYLATE; MMA</i>	e 20 °C	ECHA Dossier, MSDS of supplier					
Readily biodegradable (50%), under test conditions no biodegra 12.3. Bioaccumulative potential. <i>METHYL METHACRYLATE; MMA</i> Partition coefficient n-octanol/water: Log Kow (Log Pow)= 1,38 Based on Log Pow 1,38, bioaccumulation of methyl methacrylat	dation observed (50%) @ 20 °C e is not expected, ECH/	ECHA Dossier, MSDS of supplier					
Readily biodegradable (50%), under test conditions no biodegrad 12.3. Bioaccumulative potential. METHYL METHACRYLATE; MMA Partition coefficient n-octanol/water: Log Kow (Log Pow)= 1,38 Based on Log Pow 1,38, bioaccumulation of methyl methacrylat ETHYLENE DIMETHACRYLATE; EGDMA	@ 20 °C e is not expected, ECH/	ECHA Dossier, MSDS of supplier					
Readily biodegradable (50%), under test conditions no biodegrad 12.3. Bioaccumulative potential. <i>METHYL METHACRYLATE; MMA</i> Partition coefficient n-octanol/water: Log Kow (Log Pow)= 1,38 Based on Log Pow 1,38, bioaccumulation of methyl methacrylat <i>ETHYLENE DIMETHACRYLATE; EGDMA</i> Partition coefficient n-octanol/water: Log Kow (Log Pow)= 2.4 @ Bioaccumulation factor (BCF) – 21,9 It is considered that the substance has low potential for bioaccum	@ 20 °C e is not expected, ECH/ 20 °C mulation, ECHA Dossie	ECHA Dossier, MSDS of supplier					
Readily biodegradable (50%), under test conditions no biodegrad 12.3. Bioaccumulative potential. <i>METHYL METHACRYLATE; MMA</i> Partition coefficient n-octanol/water: Log Kow (Log Pow)= 1,38 Based on Log Pow 1,38, bioaccumulation of methyl methacrylat <i>ETHYLENE DIMETHACRYLATE; EGDMA</i> Partition coefficient n-octanol/water: Log Kow (Log Pow)= 2.4 @ Bioaccumulation factor (BCF) – 21,9 It is considered that the substance has low potential for bioaccumulation <i>N,N-DIMETHYL-P-TOLUIDINE (DMPT)</i>	@ 20 °C e is not expected, ECH/ 20 °C mulation, ECHA Dossie	ECHA Dossier, MSDS of supplier					
Readily biodegradable (50%), under test conditions no biodegrad 12.3. Bioaccumulative potential. METHYL METHACRYLATE; MMA Partition coefficient n-octanol/water: Log Kow (Log Pow)= 1,38 Based on Log Pow 1,38, bioaccumulation of methyl methacrylat ETHYLENE DIMETHACRYLATE; EGDMA Partition coefficient n-octanol/water: Log Kow (Log Pow)= 2.4 @ Bioaccumulation factor (BCF) – 21,9 It is considered that the substance has low potential for bioaccumulation factor (BCF) – 33 Bioaccumulation of N,N-dimethyl-p-toluidine is not expected, b	dation observed (50%) @ 20 °C e is not expected, ECH/ © 20 °C mulation, ECHA Dossie	ECHA Dossier, MSDS of supplier					
Readily biodegradable (50%), under test conditions no biodegrad 12.3. Bioaccumulative potential. <i>METHYL METHACRYLATE; MMA</i> Partition coefficient n-octanol/water: Log Kow (Log Pow)= 1,38 Based on Log Pow 1,38, bioaccumulation of methyl methacrylat <i>ETHYLENE DIMETHACRYLATE; EGDMA</i> Partition coefficient n-octanol/water: Log Kow (Log Pow)= 2.4 (e Bioaccumulation factor (BCF) – 21,9 It is considered that the substance has low potential for bioaccumulation factor (BCF) – 33 Bioaccumulation of N,N-dimethyl-p-toluidine is not expected, b 12.4. Mobility in soil Information not available.	dation observed (50%) @ 20 °C e is not expected, ECH/ 0 20 °C mulation, ECHA Dossie ecause does not exceed	ECHA Dossier, MSDS of supplier					
Readily biodegradable (50%), under test conditions no biodegrad 12.3. Bioaccumulative potential. <i>METHYL METHACRYLATE; MMA</i> Partition coefficient n-octanol/water: Log Kow (Log Pow)= 1,38 Based on Log Pow 1,38, bioaccumulation of methyl methacrylat <i>ETHYLENE DIMETHACRYLATE; EGDMA</i> Partition coefficient n-octanol/water: Log Kow (Log Pow)= 2.4 @ Bioaccumulation factor (BCF) – 21,9 It is considered that the substance has low potential for bioaccumulation factor (BCF) – 33 Bioaccumulation of N,N-dimethyl-p-toluidine is not expected, b 12.4. Mobility in soil Information not available. 12.5. Results of PBT and vPvB assessment On the basis of available.	@ 20 °C e is not expected, ECH/ D 20 °C mulation, ECHA Dossie ecause does not exceed	ECHA Dossier, MSDS of supplier A Dossier r t the threshold criteria					
Readily biodegradable (50%), under test conditions no biodegrading in the product of the produc	dation observed (50%) @ 20 °C e is not expected, ECH/ 0 20 °C mulation, ECHA Dossie ecause does not exceed PBT or vPvB in percent	ECHA Dossier, MSDS of supplier A Dossier r H the threshold criteria age greater than 0,1%.					
Readily biodegradable (50%), under test conditions no biodegrad 12.3. Bioaccumulative potential. METHYL METHACRYLATE; MMA Partition coefficient n-octanol/water: Log Kow (Log Pow)= 1,38 Based on Log Pow 1,38, bioaccumulation of methyl methacrylat ETHYLENE DIMETHACRYLATE; EGDMA Partition coefficient n-octanol/water: Log Kow (Log Pow)= 2.4 @ Bioaccumulation factor (BCF) – 21,9 It is considered that the substance has low potential for bioaccumulation factor (BCF) – 33 Bioaccumulation of N,N-dimethyl-p-toluidine is not expected, b 12.4. Mobility in soil Information not available. 12.5. Results of PBT and vPvB assessment On the basis of available data, the product does not contain any 12.6. Other adverse effects Information not available.	dation observed (50%) @ 20 °C e is not expected, ECH/ D 20 °C mulation, ECHA Dossie ecause does not exceed PBT or vPvB in percent	ECHA Dossier, MSDS of supplier A Dossier r I the threshold criteria age greater than 0,1%.					
Readily biodegradable (50%), under test conditions no biodegrading in the product of the produc	dation observed (50%) @ 20 °C e is not expected, ECH/ D 20 °C mulation, ECHA Dossie ecause does not exceed PBT or vPvB in percent	ECHA Dossier, MSDS of supplier A Dossier r the threshold criteria age greater than 0,1%.					
Readily biodegradable (50%), under test conditions no biodegrad 12.3. Bioaccumulative potential. METHYL METHACRYLATE; MMA Partition coefficient n-octanol/water: Log Kow (Log Pow)= 1,38 Based on Log Pow 1,38, bioaccumulation of methyl methacrylat ETHYLENE DIMETHACRYLATE; EGDMA Partition coefficient n-octanol/water: Log Kow (Log Pow)= 2.4 @ Bioaccumulation factor (BCF) – 21,9 It is considered that the substance has low potential for bioaccumulation factor (BCF) – 33 Bioaccumulation factor (BCF) – 33 Bioaccumulation of N,N-dimethyl-p-toluidine is not expected, b 12.4. Mobility in soil Information not available. 12.5. Results of PBT and vPvB assessment On the basis of available data, the product does not contain any 12.6. Other adverse effects Information not available. SECTION 13. Disposal considerations 13.1. Waste treatment methods If possible, dispose as hazardous waste. Unused mixture is hazar system.	dation observed (50%) @ 20 °C e is not expected, ECH/ D 20 °C mulation, ECHA Dossie ecause does not exceed PBT or vPvB in percent dous waste and should	ECHA Dossier, MSDS of supplier A Dossier r d the threshold criteria age greater than 0,1%. be stored under control. Do not dispose to se	ewer				
Readily biodegradable (50%), under test conditions no biodegradications 12.3. Bioaccumulative potential. METHYL METHACRYLATE; MMA Partition coefficient n-octanol/water: Log Kow (Log Pow)= 1,38 Based on Log Pow 1,38, bioaccumulation of methyl methacrylate ETHYLENE DIMETHACRYLATE; EGDMA Partition coefficient n-octanol/water: Log Kow (Log Pow)= 2.4 (e) Bioaccumulation factor (BCF) – 21,9 It is considered that the substance has low potential for bioaccumulation factor (BCF) – 33 Bioaccumulation factor (BCF) – 33 Bioaccumulation of N,N-dimethyl-p-toluidine is not expected, b 12.4. Mobility in soil Information not available. 12.5. Results of PBT and vPvB assessment On the basis of available data, the product does not contain any 12.6. Other adverse effects Information not available. SECTION 13. Disposal considerations 13.1. Waste treatment methods If possible, dispose as hazardous waste. Unused mixture is hazar system. Dispose excess mixture. Dispose useless and not suitable for reg waste contractor.	dation observed (50%) @ 20 °C e is not expected, ECH/ D 20 °C mulation, ECHA Dossie ecause does not exceed PBT or vPvB in percent dous waste and should eneration solution esta	ECHA Dossier, MSDS of supplier A Dossier r the threshold criteria age greater than 0,1%. be stored under control. Do not dispose to se blished waste contractor. Pass to an authorize	ewer				



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The product must not penetrate into the soil, sewer system or come into contact with surface water or ground water.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations as unused product.

Waste code:

16 03 05* Organic wastes containing hazardous substances

15 01 10* Packaging containing residues of or contaminated by hazardous substances

SECTION 14. Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original containers or in packagings made of materials resistant to their content and not reacting dangerously with it. Persons authorized to load and unload dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

14.1. UN number								
ADR / RID, IMDG, IATA: 1247								
14.2. UN prope	r shipping na	me						
ADR / RID:	METHYL ME	ETHACRYLAT	E, MONOMER, STABILIZ	ED				
IMDG:	METHYL ME	ETHACRYLAT	E, MONOMER, STABILIZ	ED				
IATA:	METHYL ME	ETHACRYLAT	E, MONOMER, STABILIZ	ED				
14.3. Transport	hazard class	(es)						
ADR / RID:	Class: 3 Label: 3							
IMDG:	Class: 3 Label: 3							
IATA:	Class: 3 Label 3							
14.4. Packing g	roup		•					
ADR / RID, IMD	G, IATA: II							
14.5. Environm	ental hazards	;						
ADR / RID:	ADR / RID: -							
IMDG:	-							
IATA:								
14.6. Special pr	ecautions for	user						
ADR / RID:	Hazard No.:	: 339	Limited quantity: 1 L		Tunnel re	estriction code: (D/E)		
	Warning: -							
IMDG:	EMS: F-E, S-D Limited quantities: 1 L			Self-accelerating decomposition temperature (SAPT) >50%		50°C		
IATA:	Cargo:		Max. quantity: No data		Packing instructions: No data			
	Pas.: Max. quantity: No dat		a	Packing instructions: No data				
	Special provisions No data							
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code								
Not applicable.	Not applicable.							
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SECTION 15. Regulatory information

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

Seveso category:

SubstancesMethyl methacrylate:5a; 5b, 5cN,N-dimethyl-p-toluidineH2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006: None

Substances in Candidate List (Art. 59 REACH): None

Substances subject to authorization (Annex XIV REACH): None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls. PL: None

15.2. Chemical Safety Assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

:Full text of hazard (H) statements mentioned in section 2-3 of the Safety Data Sheet

Flammable Liquid category 2		
Skin irritation, category 2		
Skin sensitization, category 1		
Specific target organ toxicity - single exposure category 3		
Acute inhalation toxicity		
Acute intradermal toxicity		
Acute oral toxicity		
Specific target organ toxicity - repeated exposure		
Chronic aquatic toxicity		
Highly flammable liquid and vapour		
Causes skin irritation		
May cause an allergic skin reaction		
May cause respiratory irritation		
Toxic if swallowed		
Toxic in contact with skin		
Toxic if inhaled		
May cause damage to organs through prolonged or repeated exposure		
Harmful to aquatic life with long lasting effects		
Acute Toxicity Estimate		
European Agreement concerning the carriage of Dangerous goods by Road		
European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
Effective concentration (required to induce a 50% effect)		

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CE No.:	Identifier in ESIS (European archive of existing substances)			
CLP	EC Regulation 1272/2008			
CAS No.	Chemical Abstract Service Number			
CMR	Carcinogenic, Mutagenic or Toxic for Reproduction			
CSA	Chemical Safety Assessment			
CSR	Chemical Safety Report			
DNEL	Derived No Effect Level			
ECHA	European Chemicals Agency			
EC No.	The EC number, i.e. EINECS, ELINCS or NLP, is the official number of the substance within the European Union			
EINECS	European Inventory of Existing Chemical Substances			
EmS:	Emergency Schedule			
GHS	Globally Harmonized System of classification and labeling of chemicals			
ΙΑΤΑ	International Air Transport Association			
IATA DGR	International Air Transport Association Dangerous Goods Regulation			
ICAO-TI	International Civil Aviation Organization - Technical Instructions			
IC50:	Immobilization Concentration 50%			
IMDG	International Maritime Code for dangerous goods			
IMO:	International Maritime Organization			
IMSBC	International Maritime Solid Bulk Cargoes Code			
INDEX No.	Identifier in Annex VI of CLP			
Cow	Octanol/water partition coefficient			
LC50	Lethal Concentration 50%			
LD50	Lethal Dose 50%			
LoW	List of Waste (see http://ec.europa.eu/environment/waste/framework/list.htm)			
MSDS	Material Safety Data Sheet			
OEL	Occupational Exposure Level			
OSHA	Occupational Safety and Health Administration			
РВТ	Persistent Bioaccumulative and Toxic as REACH Regulation			
PEC	Predicted Environmental Concentration			
PEL	Predicted Exposure Level			
PNEC	Predicted No Effect Concentration			
PPE	Personal Protective Equipment			
REACH	EC Regulation 1907/2006			
RID	Regulation concerning the International transport of dangerous goods by train			
SDS	Safety Data Sheet			
STOT	Specific Target Organ Toxicity			
(STOT) RE	Specific Target Organ Toxicity - Repeated Exposure			
(STOT) SE	(STOT) SE Specific Target Organ Toxicity - Single Exposure			
SVHC	Substances of Very High Concern			
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TLV	Threshold Limit Value
TLV CEILING	Concentration that should not be exceeded during any time of occupational exposure
TWA STEL	Short-term exposure limit
TWA	Time-weighted average exposure limit
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative as for REACH Regulation
GENERAL BIBLIOGRAPHY	
1. Regulation (EC) 1907/	(2006 (REACH) of the European Parliament

- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Rozporządzenie (UE) 2015/830 Parlamentu Europejskiego
- 5. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Rozporządzenie (UE) 487/2013 Parlamentu Europejskiego (IV Atp. CLP)
- 8. Rozporządzenie (UE) 944/2013 Parlamentu Europejskiego (V Atp. CLP)
- 9. Rozporządzenie (UE) 605/2014 Parlamentu Europejskiego (VI Atp. CLP)
- 10. Rozporządzenie (UE) 2015/1221 Parlamentu Europejskiego (VII Atp. CLP)
- 11. Rozporządzenie (UE) 2016/918 Parlamentu Europejskiego (VIII Atp. CLP)
- 12. Rozporządzenie (UE) 2016/1179 (IX Atp. CLP)
- 13. Rozporządzenie (UE) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

Note for users:

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. Users should verify if the provided information is correct and full in relation to the specific designation of the product.

This document cannot be identified with the guarantee for any specific product property.

Due to the fact that the application takes place without the possibility of control from the producer's side; therefore user is obliged to comply at his own responsibility with the laws and regulations regarding the occupational health and safety. The producer is relieved from any liability arising from improper uses.

Provide proper training for staff who is appointed to handling the chemical products.

Changes to previous review:

Revision	Date	Change	Implemented by	Change description
		reference		
1	2021-05-27	N/A	Andrzej Cegliński	First Issue of Document