1.	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND
	COMPANY/UNDERTAKING
	INFORMATION ON THE PRODUCT
1.1	Product identifier
	Trade name
	POLIREPAR S LIQUID
1.2	Relevant identifier uses of the substance or mixture and uses advised against
-	Recommended use
	Material for the fabrication of dental prosthesis repairs.
1.3	Details of the supplier of the Safety Data Sheet
	Manufacturer/supplier
	Polident d.o.o.,
	Dental Products Industry
	Volčja Draga 42, 5293 Volčja Draga,
	Slovenija
	Tel.:00386 5 3304840, Fax: 00386 5 3304870
	E-mail: <u>polident@polident.si</u>
	Information provided by
	00386 5 3304859
1.4	Emergency telephone number
	00386 5 3304840
2.	HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture
	Mixture
	Clasification according to Regulation (EC) No. 1272/2008
	Flam. Liq. 2 H225 Highly flammable liquid and vapour.
	Skin Irrit. 2 H315 Causes skin irritation.
	Skin Sens. 1 H317 May cause an allergic skin reaction.
	STOT SE 3 H335 May cause respiratory irritation.
2.2	Label elements
	Labelling according to Regulation (EC) No. 1272/2008
	The product is classified and labelled according to the CLP regulation.
	Hazard pictograms
	\vee \vee
	GHS02 GHS07
	Signal word
	Danger
	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 statements
	P 210 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.
	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
	Rinse skin with water/shower.
	P501 Dispose of contents/container in accordance with local/regional/national/international

1	regulati	0n c				
2.3	Other hazard					
2.5	Results of PB		ssessment			
	PBT: Not appl					
	vPvB: Not app					
3.			IATION ON I	NGREDIENTS		
3.1	Chemical cha					
	Description					
		nts methyl me	thacrylate, dime	ethacrylate and acti	vator.	
	Hazardous in	gredients acc	ording to Regu	lation (EC) No. 12	272/2008	
	Hazardous In	gredients				
	N	0/ 337/337	L. J. N.	Regulation (EC) No		
	Name	% W/W	Index No. EC No.	Hazard Class and	Hazard Statement	
			CAS No.	Category Codes	Codes	
	Methyl methacr	vlate 50-100	607-035-00-6	Flam. Liq. 2	H225	
	1,10,11,9,1,110,011,001,	<i>y</i> ¹ <i>u</i> ¹	201-297-1	Skin Irrit. 2	H315	
			80-62-6	Skin Sens. 1	H317	
				STOT SE 3	H335	
	Reaction mass of					
	[(4-methylpheny					
	imino]bisethano 2-[[2-(2-hydrox					
	ethyl](4-methyl					
	amino]ethanol	≤ 2		Eye Dam. 1	H318	
			911-490-9	Acute Tox.4	H302	
				Skin Irrit.2	H315	
				Skin Sens. l	H317	
				Aquatic Chro	nic 3 H412	
	Poly(oxy-1,2-eth					
	.alpha.,.alpha.`- phenyl)imino]di					
	ethanediyl]bis[.					
	hydroxy (polyme		2			
			103671-44-2	2	H318	
4	FIRST AID N	A CLIDES		Acute Tox.4	H302	
4. 4.1	Description of		suras			
7.1	General infor		isul cs			
			ing immediatel	V		
	Inhalation	, soaked cloth	ing ininectater	у.		
		sualty into fre	sh air. In case c	of complaints obtain	n medical attention.	
	Skin contact	sourcy into inc			n mourour unomi011.	
		ediately with y	water. If skin in	itation occurs obta	in medical attention.	
	Eye contact	calactry with				
	•	eve with plent	v of water and	if it is necessary of	tain medical attention.	
	Ingestion	j prem	, unu			
	U	vomiting. Rin	se mouth. Obta	in immediately me	dical attention.	
4.2				oth acute and delay		
	None known.				,	
4.3		any immedia	te medical atte	ntion and special (reatment needed	
	Treat symptom	-		4		
5.	FIRE – FIGH		SURES			
5.1	Extinguishing	media				
•	5 6					

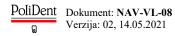
	None.
7.3	Specific end use(s)
12	years Specific and use(s)
	Considering the instructions for safety storage and handling the expiry date of the liquid is three
	Empiry date
	Keep the liquid only in the original vessel at a temperature preferably not exceeding 25°C.
	Keep away from heat and direct sunlight.
	Keep away from sources of ignition - No Smoking.
	Vessels must be tightly closed. Keep in a coal, well ventilated place.
	Requirements for storage areas
	Storage Bequinements for storage energy
7.2	Conditions for safe storage, including any incompatibilities
	In the event of fire, cool the endangered containers with water.
	Take precautionary measures against static discharges.
	Keep away from. sources of ignition – No smoking.
	Information on fire and explosion protection
	Follow the usual good standards of occupational hygiene. Avoid contact with skin and eyes.
	No eating, drinking or smoking during handling with product.
	vapour is heavier than air; beware of pits and confined spaces.
	Ensure the area is well ventilated. Avoid inhalation of high concentrations of vapours. The
	Keep away from children.
	Only adequate trained persons may deal with product. For use in dentistry only.
•••	Safe handling advice
7.1	Precautions for safe handling
7.	HANDLING AND STORAGE
	For information on disposal information see Section 13.
	For information on personal protection equipment see Section 8.
J.4	For information on safe handling see Section 7.
5.4	body. Reference to other sections
	Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory
	Transfer to a container for disposal or recovery.
	Do not adsorb onto sawdust or other combustible materials.
	Adsorb spillages onto sand, earth or any suitable adsorbent material.
6.3	Methods and material for containment and cleaning up
()	Prevent product from getting into drains, surface water or ground water.
6.2	Environmental precautions
	See Section 8.
	Ensure suitable personal protection (including respiratory protection) during removal of spillages.
	Eliminate sources of ignition.
6.1	Personal precautions, protective equipment and emergency procedures
6.	ACCIDENTAL RELEASE MEASURES
	Wear self-contained breathing apparatus and suitable protective clothing.
5.3	Advice for firefighters
	Dangerous gases may be released in case of fire.
	May polymerise on heating, the reaction is exoterm.
3.2	Highly flammable liquid.
5.2	Special hazards arising from the substance or mixture
	Unsuitable extinguishing media for safety reasons Water with full yet.
	Water spray, foam, dry powder, carbon dioxide.

	Ingredients with limit values	that require monit	oring at the workp	lace:	
		LTEL ppm	LTEL mg/m ³	STEL	STEL
		(8Hr TWA)	(8Hr TWA)	ppm	mg/m ³
	Methyl methacrylate	50	208	100	416
	CAS No. 80-62-6				
8.2	Exposure controls				
	Appropriate engineering con	itrols			
	Do not eat, drink or smoke at t		w the usual good sta	undards of o	ccupational
	hygiene and dental practise. En	A	e		1
	Store work clothing separately	. Remove contamina	ted or soaked clothi	ng immedia	tely.
	Individual protection measu	res, such as persona	l protective equipn	nent	
	Eye/face protection	_			
	Wear tightly sealed goggles.				
	Skin protection				
	Wear suitable protective glove	°S.			
	Material of gloves: Butyl rubb			1	· c · · · ·
	Suitability of gloves should be	•			
	occurs or duration of activity e			time of the	glove material:
	refer to the information provid				C (1 1)
	Commercial medical gloves do	o not provide protect	ion against the sensi	tizing effect	of methacrylates.
	Respiratory protection	· 11	· · · · · · · · · · · · · · · · · · ·	T d	C (* 1 1
	In the case of short term expos				of particularly
	high levels of vapours a self co	ontained breatning ap	paratus is appropria	lte.	
	<u>Thermal hazards</u> None.				
	Environmental exposure con	trole			
	Ensure effective control measure		ithin the boundaries	as specified	l in section 6.2
9.	PHYSICAL AND CHEMIC.			as specified	
9.1	Information on basic physica		nerties		
7.1	Appearance	and chemical pro	perties		
	Form: liquid				
	Colour: colourless				
	Odour: characteristic strong				
	pH – value: not applicable				
	Changes in condition: /				
	Melting point (°C): - 48				
	Boiling point (°C): 100,5				
	Flash point (°C): 10				
	Relative evaporation rate (E	ther=1): Not availab	le		
	Flammability (solid, gas): No	<i>,</i>			
	Auto Ignition temperature(°				
	Decomposition temperature				
	Lower explosion limit (%vv/				
	Upper explosion limit (%vv/				
	Vapour pressure (Pa): 3600 a				
	Vapour density (Air=1): 3,5				
	Density (g/cm³): 0,949 at 15,5	ъ°С			
	Viscosity (mPas): 0,6 at 20°C				
	Solubility in water: slightly s				
	v	, ,			

l	
	Solubility (quantitative): miscible with most organic solvents
	Partition coefficient (n-Octanol/water): 1,38
	Explosive properties: Not applicable Oxidising properties: Not applicable
9.2	Other information
	None.
10.	STABILITY AND REACTIVITY
10.1	Reactivity
	Will exotermically polymerise in the presence of initiators.
10.2	Chemical stability
	The product is stable under normal handling and storage conditions.
10.3	Possibility of hazardous reactions
	Susceptible to polymerisation initiated by prolonged heating or the presence of catalyst.
10.4	Conditions to avoid
	Heat and direct sunlight.
10.5	Incompatible materials
	Polymerisation catalysts, such as peroxy oz azo compounds, strong acids, alkalis and oxidising
	agents. Ovides and salts of transition metals. Organic Nitrogen containing compounds.
10.6	Cyclohexanone/Cyclohexenol tautomer.
10.6	Hazardous decomposition products None when used and stored as prescribed.
	Does not decompose up to auto-ignition temperature.
11.	TOXICOLOGICAL INFORMATION
11.1	Information on toxicological effects
	Acute toxicity
	Ingestion
	Low oral toxicity, but ingestion may cause iritation of the gastrointestinal tract.
	LD/LC50 values relevant for classification:
	80-62-6 methyl methacrylate: LD50 (oral)=7872 mg/kg (rat)
	Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness.
	Inhalation toxicity data: LC50 (vapour) 7093 ppm (29,8 mg/l)(4hr)
	Skin irritation
	May cause an allergic skin reaction. Causes skin irritation. Repated and/or prolonged contact may
	cause dermatitis.
	Eye contact
	High vapour concentration will cause irritation.
	Sensitization
	Sensitization possible through skin contact. Not a respiratory sensitizer.
	CMR effects
	Carcinogenity
	No evidence of carcinogenicity. Mutagenicity
	Germ cell mutagenicity data: negative.
	Toxicity for reproduction
	Teratogenic and fetotoxic effects only observed in presevce of maternal toxicity.
	Repeated dose toxicity
	Chronic exposure
	Repeated exposure to high levels produces adverse effects on the heart, lungs, liver and kidneys.
	Repeated exposure of animals by inhalation to levels at or above the occupational exposure level
	produces adverse effects on the nasal epithelium (levels of 100 and 400 ppm).
	There is no reason to believe that methyl methacrylate represents a carcinogenic or mutagenic hazard
	to man based upon evidence from well conducted animal studies, relevant mutagenicity studies and
	adequate epidemiology studies in relevant cohorts.
	Recent studies in animals have shown that high exposures do not produce embryo or foetotoxic nor
	teratogenic effects in the presence of maternal toxicity.

1	
	Further information on toxicology
	Avoid contact with skin and eyes and inhalation of the vapours.
12.	ECOLOGICAL INFORMATION
12.1	Toxicity
	Hazardous to the aquatic environment
	Low toxicity to fish.
	LC_{50} (fish) > 100 mg/l
	LC ₅₀ (96 our) (static) : 130 mg/l
	Harmful to aquatic invertebrates
	EC 50 (Daphia magna) (48 hour) 69 mg/l
	Low toxicity to algae. $1.00 \leq 1.00 $
10.0	EC 50 (selenastrum capricornutum) (96 hour) 170 mg/l
12.2	Persistence and degradability
	Readily biodegradable.
12.2	Chemical oxygen demand (COD) 88% (28 days).
12.3	Bioaccumulative potential
12.4	The product has low potential for bioacumulation. Mobility in soil
12.4	The product is predicted to have high mobility in soil.
12.5	Results of PBT and vPvB assessment
12.3	PBT: Not applicable.
	vPvB: Not applicable.
12.6	Other adverse effects: No further relevant information available.
13.	DISPOSAL CONSIDERATIONS
13.1	Waste treatment methods
10.1	Product: Must not be disposed together with household garbage. Do not allow product to reach
	sewage system. Disposal should be made in accordance with local, state and national legislation.
	Uncleaned packaging: Disposal should be made in accordance with local, state and national
	legislation.
14.	TRANSPORT INFORMATION
14.1	UN number: 1247
14.2	UN proper shipping name
	METHŶL METĤAČRYLATE MONOMER, STABILIZED
14.3	Transport hazard class(es)
	ADR, IMDG, IATA
	Classe 2 Elementale liquida
	Class: 3 Flammable liquids Label: 3
144	
14.4	Packing group ADR, IMDG, IATA: II
	ADK, IMIDO, IATA: II
14.5	Environmental hazards
14.3	Marine pollutant: Not classified as a marine pollutant.
14.6	Special precautions for user
14.0	Warning: Flammable liquids.
	Danger code (Kemler): 339
	EMS Number: F-E,S-E
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
1 70/	Not applicable.
14.8	Transport additional information
1 1.0	ADR
	Limited quantities (LQ): 1L
	Transport category: 2

15.		LATORY INFORMATION		
15.1	• •	health and environmental regulations/legislation specific for the substance or mixture		
	Produc	t is a medical device class IIa according to Directive 93/42/EEC.		
15.2	2 Chemical Safety Assessment			
	A chem	nical safety assessment has not been carried out for this micture.		
16.	OTHE	R INFORMATION		
	This in	formation is based on our present knowledge and experience. They are intended as a		
	description of the products safety requirements and are not to be seen as a quarantee of certain			
	product's features.			
	-	nt phrases		
	H225	Highly flammable liquid and vapour.		
	H315	Causes skin irritation.		
	H317	May cause an allergic skin reaction.		
	H335	May cause respiratory irritation.		



SAFETY DATA SHEET according to regulation 1907/2006/EC POLIREPAR S LIQUID

Pripravil: Janja Lipušček

Pregledal: Dejan Kolšek

Odobril: Janja Lipušček