| 1. | IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING |
|-----|---------------------------------------------------------------------------------------------------------------------------------|
| 1 1 | INFORMATION ON THE PRODUCT |
| 1.1 | Product identifier Trade name |
| | Trade name |
| | POLITEMP LIQUID |
| 1.2 | Relevant identifier uses of the substance or mixture and uses advised against Recommended use |
| | Material for the fabrication of temporary crowns and bridges. |
| 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: polident.apolident.si |
| | 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. |
| | Flam. Liq. 2H225Highly flammable liquid and vapour.Skin Irrit. 2H315Causes 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 |
| | \wedge \wedge |
| | |
| | |
| | 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 gway from heat/coverks/open flames/het surfaces No smoking |
| | 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 |

| | regulations. | | | | | |
|---|-------------------------------------------|-------------|-------------------------|---------------------------------------------|---------------------|-------|
| 3 | Other hazards | | | | | |
| | Results of PBT ar | | ssessment | | | |
| | PBT: Not applicat | | | | | |
| | vPvB: Not applica | | | | | |
| | COMPOSITION | | | NGREDIENTS | | |
| l | Chemical charact | terization | Mixtures | | | |
| | Description | | 41 | 41 | | |
| | Product contents 1 | | | ethactylate and acti llation (EC) No. 12 | | |
| | Hazar uous ingret | ments acco | orung to Kegu | nation (EC) No. 12 | 2/2/2000 | |
| | Hazardous Ingree | dients | | | | |
| | - | | | Regulation (EC) No | | |
| | Name | % W/W | Index No. | Hazard Class and | Hazard | |
| | | | EC No. CAS No. | Category Codes | Statement | |
| | Methyl methacrylate | 50-100 | CAS No. 607-035-00-6 | Flam. Liq. 2 | Codes H225 | |
| | wiedry i methael y late | 50 100 | 201-297-1 | Skin Irrit. 2 | H315 | |
| | | | 80-62-6 | Skin Sens. 1 | H317 | |
| | | | | STOT SE 3 | H335 | |
| | Ethane diol dimeth- | | | | | |
| | acrylate | 2,5-10 | 607-114-00- | 5 Skin Sens. 1 | H317 | |
| | | 2,5 10 | 202-617-2 | STOT SE 3 | H335 | |
| | | | 97-90-5 | - | | |
| | Reaction mass of 2,2 | ?`- | | | | |
| | [(4-methylphenyl) | 1 | | | | |
| | imino]bisethanol and 2-[[2-(2-hydroxyetha | | | | | |
| | ethyl](4-methylphen | | | | | |
| | amino]ethanol | ≤ 2 | | Eye Dam. 1 | H318 | |
| | - | | 911-490-9 | Acute Tox.4 | H302 | |
| | | | | Skin Irrit.2 | H315 | |
| | | | | Skin Sens.1 | H317 | |
| | | | | Aquatic Chro | nic 3 H412 | |
| | Poly(oxy-1,2-ethane | diyl) | | | | |
| | .alpha.,.alpha.`- [[(4 | | | | | |
| | phenyl)imino]di-2,1- | | | | | |
| | ethanediyl]bis[.omeg hydroxy (polymer) | ga ≤∑ | 2 103671-44-9 | Ena Dam 1 | H318 | |
| | nyuroxy (polymer) | 24 | 2 1030/1-44-9 | Eye Dam.1 Acute Tox.4 | H318 H302 | |
| | | | | | | |
| | FIRST AID MEA | | | | | |
| l | Description of fir | | isures | | | |
| | General informat | | · · · · · | | | |
| | Remove soiled, so | aked cloth | ing immediatel | у. | | |
| | Inhalation Remove the casual | ty into fro | sh air. In case e | of complaints obtain | medical attention | |
| | Skin contact | ity mito me | sn an. m case C | | | 1. |
| | | tely with a | vater If skin in | ritation occurs obta | in medical attentic | m |
| | Eye contact | with v | valet. 11 5K111 111 | | | /11. |
| | • | with plent | v of water and | if it is necessary ob | tain medical atten | tion. |
| | Ingestion | | , or matter and | 11 10 10 Heeesbury 00 | turn mealeur atten | |
| | 6 | niting. Rin | se mouth. Obta | in immediately me | dical attention. | |
| | | | | • | | |
| 2 | Most important s | • | and effects. bo | oth acute and delay | ved | |
| 2 | Most important s None known. | • | and effects, bo | th acute and delay | yed | |

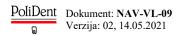
| Treat symptomatically. FIRE - FIGHTING MEASURES Extinguishing media Suitable extinguishing media Water spray, foam, dry powder, carbon dioxide. Unsuitable extinguishing media for safety reasons Water with full yet. S.2 Special hazards arising from the substance or mixture Highly flammable liquid. May polymerise on heating, the reaction is exoterm. Dangerous gases may be released in case of fire. 5.3 Advice for firefighters Wear self-contained breathing apparatus and suitable protective clothing. 6. ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions, protective equipment and emergency procedures Eliminate sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal See Section 8. 6.2 Environmental precautions Prevent product from getting into drains, surface water or ground water. 6.3 Methods and material for containment and cleaning up Adsorb spillages onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. Transfer to a container for disposal or recovery. Spillages or uncontrolled discharges into watercourses must be alerted to the approprised of y. | |
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| Spillages or uncontrolled discharges into watercourses must be alerted to the appropr body. | |
| body. | |
| • | iate regulatory |
| | |
| 6.4 Reference to other sections | |
| For information on safe handling see Section 7. | |
| For information on personal protection equipment see Section 8. | |
| For information on disposal information see Section 13. | |
| 7. HANDLING AND STORAGE | |
| 7.1 Precautions for safe handling | |
| Safe handling advice | |
| Only adequate trained persons may deal with product. For use in dentistry only. | |
| Keep away from children. | |
| Ensure the area is well ventilated. Avoid inhalation of high concentrations of var | oours.The |
| vapour is heavier than air; beware of pits and confined spaces. | |
| No eating, drinking or smoking during handling with product. | |
| Follow the usual good standards of occupational hygiene. Avoid contact with skin | and eves. |
| Information on fire and explosion protection | and of os. |
| Keep away from. sources of ignition – No smoking. | |
| Take precautionary measures against static discharges. | |
| In the event of fire, cool the endangered containers with water. | |
| 7.2 Conditions for safe storage, including any incompatibilities | |
| Storage | |
| Requirements for storage areas | |
| Vessels must be tightly closed. | |
| Keep in a coal, well ventilated place. | |
| Keep away from sources of ignition - No Smoking. | |
| Keep away from heat and direct sunlight. | |
| | |
| Keep the liquid only in the original vessel at a temperature preferably not exceeding 2 | 25°C |
| Empiry date | 25°C. |
| Considering the instructions for safety storage and handling the expiry date of the liq | |
| years | |
| 7.3 Specific end use(s) | |

| | ROLS /PERSONAL PROT | TECTION | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------|-------------------|
| Control parameters | | Lenon | | |
| | it values that require moni | toring at the workp | lace: | |
| C | • | J | | |
| | 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 | | | | |
| Exposure controls | | | | |
| Appropriate enginee | | | | |
| | moke at the work place. Folle | | | ccupational |
| | actise. Ensure adequate vent | | | |
| | eparately. Remove contamin | | | tely. |
| | n measures, such as person | al protective equipm | nent | |
| Eye/face protection | | | | |
| Wear tightly sealed g | oggles. | | | |
| | | | | |
| | | | | |
| Skin protection | | | | |
| Wear suitable protect | ive gloves | | | |
| | | | | |
| | | | | |
| | | | | |
| Material of gloves: B | | | | |
| | hould be confirmed with glo | | | |
| | activity exceed break through | | time of the | glove mater |
| | on provided by the glove's pr | | | 0 1 |
| | 1 1 | | | |
| | gloves do not provide protec | tion against the sensi | tizing effect | t of methaci |
| Respiratory protection | <u>1</u> | - | - | |
| Respiratory protection In the case of short te | n rm exposure use suitable mas | sk with filter type A. | In the event | |
| Respiratory protection In the case of short te high levels of vapours | <u>1</u> | sk with filter type A. | In the event | |
| <u>Respiratory protection</u> In the case of short te high levels of vapours <u>Thermal hazards</u> | n rm exposure use suitable mas | sk with filter type A. | In the event | |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. | n rm exposure use suitable mas s a self contained breathing a | sk with filter type A. | In the event | |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo | n rm exposure use suitable mass s a self contained breathing a sure controls | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo Ensure effective cont | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working w | sk with filter type A. pparatus is appropria within the boundaries | In the event te. | t of particula |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo Ensure effective contr PHYSICAL AND C | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo Ensure effective conte PHYSICAL AND C Information on basis | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working w | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo Ensure effective contr PHYSICAL AND C Information on basis Appearance | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo Ensure effective conte PHYSICAL AND C Information on basis Appearance Form: liquid | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo Ensure effective conte PHYSICAL AND C Information on basic Appearance Form: liquid Colour: colourless | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES c physical and chemical pro | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours Thermal hazards None. Environmental expo Ensure effective contr PHYSICAL AND C Information on basis Appearance Form: liquid Colour: colourless Odour: characteristi | n rm exposure use suitable mass is a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES c physical and chemical pro- | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo Ensure effective contr PHYSICAL AND C Information on basis Appearance Form: liquid Colour: colourless Odour: characteristi pH – value: not appli | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES c physical and chemical pro | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo Ensure effective contr PHYSICAL AND C Information on basis Appearance Form: liquid Colour: colourless Odour: characteristi pH – value: not appli Changes in condition | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working w HEMICAL PROPERTIES c physical and chemical pro- c strong c able n: / | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours Thermal hazards None. Environmental expo Ensure effective contr PHYSICAL AND C Information on basic Appearance Form: liquid Colour: colourless Odour: characteristi pH – value: not appli Changes in condition Melting point (°C): - | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES c physical and chemical pro- c strong cable n: / 48 | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours Thermal hazards None. Environmental expo Ensure effective contr PHYSICAL AND C Information on basic Appearance Form: liquid Colour: colourless Odour: characteristi pH – value: not appli Changes in condition Melting point (°C): 1 | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES c physical and chemical pro- c strong cable n: / 48 00,5 | sk with filter type A. pparatus is appropria | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo Ensure effective contr PHYSICAL AND C Information on basis Appearance Form: liquid Colour: colourless Odour: characteristi pH – value: not appli Changes in condition Melting point (°C): 1 Flash point (°C): 10 | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES c physical and chemical pro- c strong cable n: / 48 00,5) | sk with filter type A. pparatus is appropria within the boundaries | In the event te. | t of particul |
| Respiratory protection In the case of short te high levels of vapours <u>Thermal hazards</u> None. Environmental expo Ensure effective conte PHYSICAL AND C Information on basis Appearance Form: liquid Colour: colourless Odour: characteristi pH – value: not appli Changes in condition Melting point (°C): 1 Flash point (°C): 10 Relative evaporation | n m exposure use suitable mass s a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES c physical and chemical pro- c strong cable n: / 48 00,5 n rate (Ether=1): Not available | sk with filter type A. pparatus is appropria within the boundaries | In the event te. | t of particul |
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| Respiratory protection In the case of short te high levels of vapours Thermal hazards None. Environmental export Ensure effective contr PHYSICAL AND C Information on basis Appearance Form: liquid Colour: colourless Odour: characteristi pH – value: not appli Changes in condition Melting point (°C): 1 Flash point (°C): 1 Flash point (°C): 1 Relative evaporation Flammability (solid, Auto Ignition tempe Lower explosion lim | n rm exposure use suitable mass s a self contained breathing a sure controls rol measures when working v HEMICAL PROPERTIES c physical and chemical pro- c strong cable n: / 48 00,5) n rate (Ether=1): Not available rature(°C): 421 perature (°C): Not applicable rature(°C): Not applicable it (%vv/v): 2,1 it (%vv/v): 12,5 a): 3600 at 20°C | sk with filter type A. pparatus is appropria within the boundaries operties | In the event te. | t of particula |

Density (g/cm³): 0,949 at 15,5 °C Viscosity (mPas): 0,6 at 20°C Solubility in water: slightly soluble, 1,6% at 20°C 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. 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

| 1 | |
|-------------|-----------------------------------------------------------------------------------------------------|
| | 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. |
| | Further information on toxicology |
| 10 | 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. |
| 10.0 | EC 50 (selenastrum capricornutum) (96 hour) 170 mg/l |
| 12.2 | Persistence and degradability |
| | Readily biodegradable. |
| 10.0 | Chemical oxygen demand (COD) 88% (28 days). |
| 12.3 | Bioaccumulative potential |
| 10 1 | The product has low potential for bioacumulation. |
| 12.4 | Mobility in soil |
| 10.5 | The product is predicted to have high mobility in soil. |
| 12.5 | Results of PBT and vPvB assessment |
| | PBT: Not applicable. |
| 10 (| vPvB: Not applicable. |
| 12.6 | Other adverse effects: No further relevant information available. |
| 13. | DISPOSAL CONSIDERATIONS |
| 13.1 | Waste treatment methods |
| | 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 |
| 14. | legislation. TRANSPORT INFORMATION |
| 14. 14.1 | UN number: 1247 |
| | |
| 14.2 | UN proper shipping name METHYL METHACRYLATE MONOMER, STARILIZED |
| 14.3 | METHYL METHACRYLATE MONOMER, STABILIZED Transport hazard class(es) |
| 14.5 | ADR, IMDG, IATA |
| | ADR, IMDO, IATA |
| | |
| | 3 |
| | Class: 3 Flammable liquids |
| | Label: 3 |
| 14.4 | Packing group |
| | ADR, IMDG, IATA: II |
| | |
| 14.5 | Environmental hazards |
| | Marine pollutant: Not classified as a marine pollutant. |
| 14.6 | Special precautions for user |
| | 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 |
| | Not applicable. |
| 14.8 | Transport additional information |
| · | • |

| 15. 1 15.1 S | ADR Limited quantities (LQ): 1L Transport category: 2 <u>Tunnel restriction code: D/E</u> REGULATORY INFORMATION | | | | |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| 15. 1 15.1 S | Tunnel restriction code: D/E REGULATORY INFORMATION | | | | |
| 15. 1 15.1 S | REGULATORY INFORMATION | | | | |
| 15.1 | | | | | |
| | | | | | |
| - | Safety, health and environmental regulations/legislation specific for the substance or mixture | | | | |
| | Product is a medical device class IIa according to Directive 93/42/EEC. | | | | |
| 15.2 | Chemical Safety Assessment | | | | |
| 1 | A chemical safety assessment has not been carried out for this micture. | | | | |
| 16. | OTHER INFORMATION | | | | |
| - - | This information 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. | | | | |
|] | Relevant 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 POLITEMP LIQUID

Pripravil: Janja Lipušček

Pregledal: Dejan Kolšek

Odobril: Janja Lipušček