

### Section 1 – Identification

**Product Name:** Ú!ā ^|!^••ÁE!^|Áã ~ ä

MPK Nails GmbH  
An der Brücke 1  
95679 Waldershof

**Chemical Name:** N/A

**Family:** Monomer

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**Product Use:** Nail Liquid

### Section 2 – Hazards Identification

#### EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.



- **Flammable liquid and vapor!**
- May cause eye irritation
- May cause skin irritation.
- Avoid prolonged or repeated breathing of gases, vapors or mists.
- Please read entire MSDS for additional information.

#### Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry	Inhalation , skin , eyes
Eye	Vapor concentrations may cause irritation of eyes. Liquid contact with eyes can cause irritation and possible corneal damage.
Skin	Liquid concentration may cause moderate skin irritation. Repeated or prolonged contact may cause allergic skin rashes, itching and swelling which becomes evident on re-exposure to this product.
Ingestion	Causes irritation, a burning sensation of the mouth, throat and respiratory tract and abdominal pain.
Inhalation	High vapor concentrations may irritate the respiratory system. Prolonged exposure can lead to headaches , nausea , drowsiness and unconsciousness.
Sub-Chronic Effects	Unlikely to present a cancer hazard in man.

NOTE: Refer to Section 11, Toxicological Information for Details

### Section 3 – Composition/Information on Ingredients

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure	Limits	Carcinogen	%
				OSHA TWA/STEL	ACGIH TWA/STEL		
Ethyl Methacrylate	97-63-2	202-597-5	Ethyl methacrylate	N/E	N/E	Not Listed	60-65
Tetraethylene glycol dimethacrylate	109-17-1	203-653-1	PEG-4 Dimethacrylate	N/E	N/E	Not Listed	10-15
Ethylene Glycol Dimethacrylate Esters	97-90-5	202-617-2	Glycol HEMA-Methacrylate	N/E	N/E	Not Listed	10-15
2-hydroxyethyl methacrylate	868-77-9	212-782-2	HEMA	N/E	N/E	Not Listed	5-10
N,N-Dimethyl-p-toluidine	99-97-8	202-805-4	Dimethyltolylamine	N/E	N/E	Not Listed	0-1
D&C Violet #2	81-48-1	201-353-5	CI 60725	N/E	N/E	Not Listed	0-1
N/E – None Established	N/DA – No Data Available						
N/R – Not Reviewed	N/A – Not Applicable						

**Ethyl Methacrylate:** Hazard Symbol: F, Xi Risk Phrases: R11, R36/37/38, R43 Safety Phrases: S2, S9, S16, S29, S33  
**Tetraethylene Glycol Dimethacrylate:** Hazard Symbol: Xi Risk Phrases: R36/38 Safety Phrases: S21, S24/25, S26, S41  
**Ethylene Glycol Dimethacrylate:** Hazard Symbol: Xi Risk Phrases: R37, R43 Safety Phrases: S2, S24, S37  
**2-Hydroxy ethyl methacrylate:** Hazard Symbols – Xi Risk Phrases – R36/38, R43 Safety Phrases – S2, S26, S28

See Section 16 for Risk and Safety Phrase Key

### Section 4 – First Aid Measures

**First Aid for Eye** Flush with water for 15 minutes, including under eyelids. Seek medical help if discomfort persists.

First Aid for Skin Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if discomfort persists.

First Aid for Inhalation Remove to fresh air. If having breathing difficulty, give oxygen. If breathing has stopped, give artificial respiration. Get medical help if discomfort persists.

First Aid for Ingestion Rinse mouth out with water. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person. Seek prompt medical attention.

**Section 5 – Fire Fighting Measures**

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
TAG Closed: 113°F/45°C	N/DA	N/DA

**Method:**

Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical or Carbon Tetrachloride.

Fire Fighting Instructions: Wear self-contained breathing apparatus and full protective gear. Water may be ineffective unless used as a fine spray or fog. Use water spray to cool the exposed containers of methacrylate monomer.

Unusual Hazards: Vapors may travel to source of ignition and flash back. Avoid ignition sources or excessive temperatures. Heat can induce polymerization with rapid release of energy. Closed containers may rupture explosively. Spontaneous polymerization may occur with prolonged aging.

**Section 6 – Accidental Release Measures**

Spill or Release Procedures Eliminate all sources of heat and ignition. Use absorbent material for spills and dike it, wash spill material into retaining containers. Place containers in a well ventilated area. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. EU Regulations require the consultation of Directive 98/24/EC. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

**Section 7 – Handling and Storage**

Handling Keep away from heat, sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Ground all metal containers when transferring and use explosion-proof equipment. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

Storage Store in a cool, dry area. Keep container closed when not in use. Store at ambient temperatures out of direct sunlight. Store in a well ventilated place. Store in accordance with National Fire Protection Association recommendations. Maintain air space inside storage containers. Inhibitor requires air ( oxygen ) contact to function. Check inhibitor levels after 3 months and return to original level.

Explosion Hazard Avoid ignition sources or excessive temperatures. Heat can induce polymerization with rapid release of energy. Closed containers may rupture explosively. Spontaneous polymerization may occur with prolonged aging.

**Section 8 – Exposure Controls / Personal Protection**

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

**Personal Protective Equipment**

General To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

Eye/ Face Protection Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying material.

# Material Safety Data Sheet Primerless Acryl Liquid

Skin Protection	Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Neoprene and Nitrile rubber is better than PVC.
Respiratory Protection	A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

## Section 9 – Physical and Chemical Properties

Appearance	Odor & Odor Threshold	pH	Specific Gravity	Viscosity	% Volatile		
Clear, violet liquid	sharp ester-like odor	N/A	(H2O=1): 0.95	Slightly more viscous than water	W/W %: 99+		
Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (20°C)
EMA=243°F	N/A	EMA=1. 25	EMA= mm Hg: 0.69 kPa @ 38°C	(Air=1) EMA: 3.9	N/DA	N/A	N/DA
Flash Point (°F/°C)		Flammable Limit (vol%)		Auto-ignition Temperature (vol%)			
TAG Closed: 113°F/45°C		N/DA		N/DA			

## Section 10 – Stability and Reactivity

<b>Stability:</b> Stable <b>Hazardous Decomposition Products:</b> Oxides of carbon when burned. <b>Conditions to Avoid:</b> Temperatures above 60 F, oxidizing or reducing agents, peroxides and amines, storage in absence of inhibitor, and inadvertent addition of catalyst.	<b>Incompatibility (Materials to Avoid):</b> Reducing and oxidizing agents and UV light. <b>Hazardous Polymerization:</b> May occur
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## Section 11 – Toxicological Information

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation – skin	Irritation – Eye
Oral (Rat) LD50 : 13300mg/kg	Dermal(Rabbit) LD50 : > 9100 mg/kg	Inhalation (Rabbit) LD 50: 3800 ppm	N/DA	N/DA
Since this product contains a very low concentration of active components, the primary toxicological information is from the monomers. Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.				
Sensitization	Mutagenicity		Sub-chronic Toxicity	
N/DA	Test positive as a mutagen on laboratory animals		N/DA	

RTECS#: 97-63-2: OZ4550000  
 97-90-5: OZ4400000  
 868-77-9: OZ4725000

## Section 12 – Ecological Information

### Ecotoxicological Information

Acute Toxicity to Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
N/DA	N/DA	N/DA	N/DA	N/DA

### Chemical Fate Information

Biodegradability	N/DA
Chemical Oxygen Demand	N/DA

To the best of our knowledge, the ecotoxicological and chemical fate properties have not been thoroughly investigated. Do not allow to enter drinking water supplies, wastewater, or soil.

## Section 13 – Disposal Considerations

Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

**Section 14 – Transport Information**

<b>DOT (49 CFR 172)</b>	
Proper Shipping Name:	UN1993, Flammable liquids, n.o.s., (ethyl methacrylate, tetraethylene glycol dimethacrylate), 3, PGIII
Identification Number:	UN1993
Marine Pollutant:	No
Special Provisions:	T8, T31
<b>Emergency Response Guidebook (ERG) #:</b>	<b>128</b>
<b>IATA (DGR):</b>	
Proper Shipping Name:	UN1993, Flammable liquids, n.o.s., (ethyl methacrylate, tetraethylene glycol dimethacrylate), 3, PGIII
Class or Division:	3
UN or ID Number:	UN1993
Packaging Instructions:	
<b>Emergency Response Guidance (ICAO)#:</b>	
<b>IMO (IMDG):</b>	
Proper Shipping Name:	UN1993, Flammable liquids, n.o.s., (ethyl methacrylate, tetraethylene glycol dimethacrylate), 3, PGIII
Class or Division:	3.3
UN or ID Number:	UN1993
Special Provisions & Stowage/Segregation:	None
<b>Emergency Schedule (EmS)#:</b>	
<b>Other Information:</b>	<b>Flash point = 45°C</b>

**Section 15 – Regulatory Information**

**US Federal Regulations**

Clean Air Act: HAP/ODS	This product contains the following hazardous air pollutants (HAP's) as defined by the U. S. Clean Air Act: <ul style="list-style-type: none"> <li>NONE</li> </ul> This product does not contain any Class1 or Class 2 ODS.
Clean Water Act:	This product contains the following Hazardous Substances as defined by the CWA: <ul style="list-style-type: none"> <li>NONE</li> </ul> This product does not contain any substances that are a Priority Pollutant or Toxic Pollutant under the CWA.
FDA: Food Packaging Status	This product has not been cleared by the FDA for use in food packaging and/or other applications as an indirect food additive.
Occupational Safety and Health Act	This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard. Its hazards are: <ul style="list-style-type: none"> <li>Fire hazard</li> <li>Immediate (acute) health hazard</li> </ul>
RCRA	This product is considered to be a hazardous waste under RCRA (40 CFR 261) RCRA Code: <ul style="list-style-type: none"> <li>Ethyl methacrylate, CAS# 97-63-2, RCRA Code: U118</li> <li>Characteristic of Ignitability, RCRA Code: D001</li> </ul>

SARA Title III: Section 302 (TPQ)	This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances that carry a TPQ.
SARA Title III: Section 302 (RQ)	This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List). <ul style="list-style-type: none"> <li>Ethyl Methacrylate, CAS# 97-63-2, RQ (Lbs): 1000</li> </ul>
SARA Title III: Section 311-312:	This product is considered hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370 ). Its hazards are: <ul style="list-style-type: none"> <li>Fire hazard</li> <li>Immediate (acute) health hazard</li> </ul>
SARA Title III: Section 313:	This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: <ul style="list-style-type: none"> <li>NONE</li> </ul>
TSCA Section 8(b): Inventory: TSCA Significant New Use Rule:	This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements. None of the chemicals in this material have a SNUR under TSCA.



**State Regulations**

CA Right-to-Know Law: California No Significant Risk Rule:	NONE NONE
MA Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2
NJ Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2
PA Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2
FL Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2
MN Right-to-Know Law:	None

**International Regulations**

CDSL: Canadian Inventory (on Canadian Transitional List)	Ethyl methacrylate: DSL regulatory status: Included, WHMIS: B2: flammable liquid D-2B: Toxic Tetraethylene glycol dimethacrylate: DSL regulatory status: Included, WHMIS: N/DA 2-Hydroxypropyl methacrylate: DSL regulatory status: Included, WHMIS: N/DA Ethylene glycol dimethacrylate: DSL regulatory status: Included, WHMIS: N/DA N,N,-Dimethyl-p-toluidine: DSL regulatory status: Included, WHMIS: None
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**Labeling according to EC directives – 1999/45/EC**

European Community:   	<b>PL C1 Monomer:</b> <ul style="list-style-type: none"> <li><b>HAZARD SYMBOLS: Xi, F: Irritant, Flammable</b></li> <li><b>RISK PHRASES: R10: flammable, R20/22: Harmful by inhalation and if swallowed, R36/37/38: Irritating to eyes, respiratory system and skin, R43: May cause sensitization by skin contact</b></li> <li><b>SAFETY PHRASES: S7/9: keep container tightly closed and in a well ventilated place, S16: keep away from sources of ignition- no smoking, S29: do not empty into drains, S33: take precautionary measures against static discharges, S36/37/39: wear suitable protective clothing, gloves and eye/face protection, S45: In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible)</b></li> </ul>
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**Section 16 – Other Information**

**EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):**

<p><b>Hazard Symbol:</b> Xi – Irritant F – Flammable substance or preparation</p> <p><b>Risk Phrases:</b> R11 Highly flammable; R36/37/38 Irritating to eyes, respiratory system and skin; R36/38 Irritating to eyes and skin; R37 Irritating to respiratory system; R43 May cause sensitization by skin contact</p>
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**Safety Phrases:**

S2 Keep out of the reach of children; S9 Keep container in a well-ventilated place; S16 Keep away from sources of ignition – No smoking; S21 When using do not smoke; S24 Avoid contact with skin; S24/25 Avoid contact with skin and eyes; S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S28 After contact with skin, wash immediately with plenty of water; S29 Do not empty into drains; S33 Take precautionary measures against static discharges; S37 Wear suitable gloves; S41 In case of fire and/or explosion do not breathe fumes

**Hazard Rating System (Pictograms)**

<p><b>NFPA:</b></p> <p>Health →</p>	<p><b>HMIS:</b></p>
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MSDS Prepared by:	BSQ
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Revision History:	07/27/2004 Initial Issue
	10/27/2004 Overall Format Update
	08/07/2006 Section 9 Update
	08/16/2007 Name Update
	12/20/2007 DOT Name update
	09/18/2008 Updated section 16
	10/22/2008 Updated Format
	12/11/2008 Updated Risk and Safety Phrases
	03/17/2009 Updated to meet Globally Harmonized System requirements. Added the EU address to section 1. Switched location of section 2 with section 3. Changed the title in sections 1, 8, and 13. Moved MSDS preparation to section 16.
	02/01/2010 Added international emergency phone number to section 1

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