



according to Regulation (EC) No 1907/2006

**MEGATRAY**

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P362+P364 Take off contaminated clothing and wash it before reuse.

**Special labelling of certain mixtures**

EUH204 Contains isocyanates. May produce an allergic reaction.

**2.3. Other hazards**

No information available.

Water hazard class 2 - Hazardous to the aquatic environment.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Matrix of polyfunctional methacrylates, glass, photochemical initiators and petroleum jelly.

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
72869-86-4	Diurethane Dimethacrylate			10 - < 15 %
	276-957-5			
	Skin Sens. 1; H317			
21245-02-3	2-Ethylhexyl-p-dimethylaminobenzoate			< 0.1 %
	244-289-3		01-2120766649-35	
	Repr. 1B, Aquatic Acute 1 (M-Factor = 10); H360 H400			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Polymerized material is non-hazardous.

**After inhalation**

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. Not applicable as all components have got a boiling point above 250°C.

**After contact with skin**

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. After contact with skin: wash with water and soap.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**



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**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**5.2. Special hazards arising from the substance or mixture**

Non-flammable.

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust. The unprotected substance must not be exposed to the light before processing, because it polymerizes. Only adequately trained personnel should handle this product. For use in dentistry only.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed. Light-sensitive substance. Protect from exposure to the light. Store not above 25°C.

**Advice on storage compatibility**

No special measures are necessary.

**7.3. Specific end use(s)**

Megatray is a light curing tray material for the fabrication of individual custom trays with extremely high dimensional stability.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

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**DNEL/DMEL values**

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
21245-02-3	2-Ethylhexyl-p-dimethylaminobenzoate		
Worker DNEL, long-term	inhalation	systemic	0,5 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	6,7 mg/kg bw/day

**PNEC values**

CAS No	Substance	
Environmental compartment	Value	
21245-02-3	2-Ethylhexyl-p-dimethylaminobenzoate	
Freshwater	0 mg/l	
Freshwater (intermittent releases)	0 mg/l	
Marine water	0 mg/l	
Freshwater sediment	0,042 mg/kg	
Marine sediment	0,004 mg/kg	
Micro-organisms in sewage treatment plants (STP)	100 mg/l	
Soil	0,008 mg/kg	

**Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls**

**Appropriate engineering controls**

Use a suitable dust extraction when grinding the polymerized plate.

**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Eye/face protection**

Wear eye protection/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	paste
Colour:	white-gray transparent, pink, blue
Odour:	characteristic
pH-Value:	not applicable

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**Changes in the physical state**

Melting point: -20 °C  
 Initial boiling point and boiling range: 200 °C  
 Flash point: > 100 °C

**Flammability**

Solid: not applicable  
 Gas: not applicable  
 Lower explosion limits: not determined  
 Upper explosion limits: not determined  
 Ignition temperature: 445 °C

**Auto-ignition temperature**

Solid: not determined  
 Gas: not applicable  
 Decomposition temperature: not determined

**Oxidizing properties**

Not oxidising.  
 Vapour pressure: 1 hPa  
 (at 20 °C)  
 Density: 1,89 g/cm<sup>3</sup>  
 Water solubility: insoluble

**Solubility in other solvents**

not determined  
 Partition coefficient: not determined  
 Flow time: Data not available  
 Vapour density: not determined  
 Evaporation rate: not determined

**9.2. Other information**

Solid content: 76,15 %

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Material will polymerize when exposed to daylight.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Direct light.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

With incomplete combustion toxic gases such as carbon monoxide may be generated.

**SECTION 11: Toxicological information**

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**11.1. Information on toxicological effects**

**Acute toxicity**

Harmful in contact with skin.

**ATEmix tested**

	Dose	Species	Source
LD50, oral	5000 mg/kg	Rat	
LD50, dermal	2000 mg/kg	Rat	

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
21245-02-3	2-Ethylhexyl-p-dimethylaminobenzoate					
	oral	LD50 mg/kg	14900	Rat		
	dermal	LD50 mg/kg	>2000	Rat		

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

May cause an allergic skin reaction. (Diurethane Dimethacrylate)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**SECTION 12: Ecological information**

**12.1. Toxicity**

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
21245-02-3	2-Ethylhexyl-p-dimethylaminobenzoate					
	Acute fish toxicity	LC50 mg/l	0,235	96 h		Manufacturer
	Acute algae toxicity	ErC50 mg/l	>0,015	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 mg/l	>0,031	48 h	Daphnia magna	
	Acute bacteria toxicity	(>1000 mg/l)		3 h		

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

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**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
72869-86-4	Diurethane Dimethacrylate	3
21245-02-3	2-Ethylhexyl-p-dimethylaminobenzoate	>6,2

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

**12.6. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.  
Water hazard class 2 - Hazardous to the aquatic environment.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**

200139 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Plastics

**Waste disposal number of used product**

200139 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Plastics

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information**

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

**EU regulatory information**

2010/75/EU (VOC): 11,38 % (215,082 g/l)  
2004/42/EC (VOC): 12,104 % (228,766 g/l)  
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

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Water contaminating class (D): 3 - highly water contaminating  
 Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning. Causes allergic hypersensitivity reactions.

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 2,6,15.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road )  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Acute Tox. 4; H312	On basis of test data
Skin Sens. 1; H317	Calculation method

#### Relevant H and EUH statements (number and full text)

H312 Harmful in contact with skin.  
 H317 May cause an allergic skin reaction.  
 H360 May damage fertility or the unborn child.  
 H400 Very toxic to aquatic life.  
 EUH204 Contains isocyanates. May produce an allergic reaction.

#### Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*