

## Material Safety Data Sheet According to 91/155 EC

Trade name: **New Outline skin primer**

Printing date 28.05.2008

Version 2



### 1 Identification of substance:

- Product details:
- Trade name: New Outline skin primer
- Article number: 16200010
- Application of the substance / the preparation: Adhering additive
- Manufacturer / Supplier:  
anax dent GmbH Olgastrasse 120A D-70180 Stuttgart  
Tel. 0049 711 620092.0 Fax 0049 711 620092.29
- Further information obtainable from: Andreas Kopietz  
e-mail: akopietz@anaxdent.com

### 2 Composition / Data on components:

#### Chemical characterization

- Description:

CAS: 80-62-6	methyl	 Xi,  F;
EINECS: 201-297-1	methacrylate	R 11-37/38-43

- Additional information:

For the wording of the listed risk phrases refer to section 16.

### 3 Hazard description



Xi Irritant, F Highly flammable

- Information concerning to particular hazards to man and environment:  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
R 11 Highly flammable.  
R 37/38 Irritating to respiratory system and skin.  
R 43 May cause sensitization by skin contact.
- Classification system  
The classification is according to the latest editions of the EU-lists, end extended by company and literature data.

### 4 First aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Take affected persons into fresh air and keep quiet.  
Seek medical treatment.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water.  
Then consult a doctor.
- After swallowing: Rinse out mouth and then drink plenty of water. Do not induce

**Material Safety Data Sheet  
According to 91/155 EC**

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vomitting; call for medical help immediately.							
<p>5 Fire fighting measures</p> <ul style="list-style-type: none"> <li>Suitable extinguishing agents: Carbon dioxide , Fire-extinguishing powder, Foam, Water haze.</li> <li>For safety reasons unsuitable extinguishing agents: Water with full jet.</li> <li>Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.</li> </ul>							
<p>6 Accidental release measures</p> <ul style="list-style-type: none"> <li>Person-related safety precautions: Ensure adequate ventilation. Keep away from ignition sources. Wear protective clothing.</li> <li>Measures for environmental protection: Do not allow product to enter sewers/surface or ground water.</li> <li>Measures for cleaning/collecting: Pick up mechanically. When pumping out, please ensure grounding. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.</li> </ul>							
<p>7 Handling and storage</p> <p>Handling</p> <ul style="list-style-type: none"> <li>Information for safe handling: Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace.</li> <li>Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Use explosion-proof apparatus / fittings and spark-proof tools. Fumes can combine with air to form an explosive mixture.</li> </ul> <p>Storage</p> <ul style="list-style-type: none"> <li>Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Do not store at temperatures over 30 °C. Store in a cool location.</li> <li>Information about storage in one common storage facility: -</li> <li>Further information about storage conditions: Protect from exposure to the light.</li> </ul>							
<p>8 Exposure controls and personal protection gear</p> <ul style="list-style-type: none"> <li>Additional information about design of technical facilities: No further data; see item 7.</li> </ul> <table border="1"> <tr> <td colspan="2">Ingredients with limit values that require monitoring at the workplace:</td> </tr> <tr> <td colspan="2">80-62-6 methyl methacrylate</td> </tr> <tr> <td>OES</td> <td>Short-term value: 416 mg/m<sup>3</sup>, 100 ppm Long-term value: 208 mg/m<sup>3</sup>, 50 ppm</td> </tr> </table>		Ingredients with limit values that require monitoring at the workplace:		80-62-6 methyl methacrylate		OES	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm
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**Material Safety Data Sheet  
According to 91/155 EC**

**Trade name: New Outline skin primer**

- Additional information: The lists valid during the making were used as basis.
- Personal protective equipment
- General protective and hygienic measures:  
Do not inhale gases / fumes / aerosols.  
Immediately remove all soiled and contaminated clothing.  
Store protective clothing separately.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- Respiratory protection: Not necessary if room is well-ventilated.  
Use suitable respiratory protective device when high concentrations are present.  
Short term filter device: Filter AX.
- Protection of hands: Protective gloves.
- Material of gloves Butyl rubber, BR
- Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses
- Body protection: Protective work clothing (only when handling large quantities).

**9 Physical and chemical properties:**

- General information
  - Form: Fluid
  - Colour: Colourless
  - Odour: Ester-like
- Change in condition
  - Melting point / Melting range: -48°C
  - Boiling point / Boiling range: 100,3°C (1013 hPa)
- Flash point: 10°C (DIN 51755)
- Ignition temperature: 430 °C (DIN 51794)
- Danger of explosion: Product is not explosive. However, formation of explosive air / vapour mixtures are possible.
- Explosion limits:
  - Lower: 2,1 Vol.% (Literature)
  - Upper: 12,5 Vol. % (Literature)
- Vapour pressure at 20°C: 40mbar
- Density at 20°C: 0,94 g/cm<sup>3</sup>
- Solubility in / Miscibility with water: 15,9g/l
- Viscosity: 0,6 mPas (Brookfield)

**10 Stability and reactivity**

- Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.
- Materials to be avoided: In presence of radical formers ( e. g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.
- Dangerous reactions: Exothermic polymerization

**Material Safety Data Sheet  
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<ul style="list-style-type: none"> <li>• Dangerous decomposition products: -</li> </ul>																												
<p><b>11 Toxicological information</b></p> <ul style="list-style-type: none"> <li>• Acute toxicity: <table border="1" data-bbox="284 481 930 640"> <tr> <td colspan="3">LD/LC50 values relevant for classification:</td> </tr> <tr> <td colspan="3">80-62-6 methyl methacrylate</td> </tr> <tr> <td>Oral</td> <td>LD50</td> <td>▶ 5 000 mg/kg (rat)</td> </tr> <tr> <td>Dermal</td> <td>LD50</td> <td>▶ 5 000 mg/kg (rab)</td> </tr> </table> </li> <li>• Primary irritant effect: <ul style="list-style-type: none"> <li>• on the skin: Irritant to skin and mucous membranes.</li> <li>• on the eye: Slightly irritating.</li> </ul> </li> <li>• Sensitization: Sensitization possible through skin contact.</li> <li>• Additional toxicological information: <p>The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.</p> <p>Irritant</p> </li> <li>• Sensitization: May cause sensitization by skin contact.</li> </ul>	LD/LC50 values relevant for classification:			80-62-6 methyl methacrylate			Oral	LD50	▶ 5 000 mg/kg (rat)	Dermal	LD50	▶ 5 000 mg/kg (rab)																
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<p><b>12 Ecological information:</b></p> <ul style="list-style-type: none"> <li>• Behaviour in environmental systems: <p>Components: methyl methacrylate Biodegradability: 30,7 % Time: 28 d Method: OECD 301 C Valuation: difficult to decompose</p> </li> <li>• Ecotoxicological effects:</li> <li>• Aquatic toxicity: <table border="0" data-bbox="284 1422 1340 1691"> <thead> <tr> <th>Type of test</th> <th>Effective concentration</th> <th>Method</th> <th>Assessment</th> </tr> </thead> <tbody> <tr> <td>Toxicity to fish:</td> <td>LC-50: ▶79 mg/l</td> <td>OECD 203</td> <td></td> </tr> <tr> <td>(MMA)</td> <td>NOEC: 40 mg/l</td> <td>ISO 7346</td> <td></td> </tr> <tr> <td></td> <td>Time: 96 h EEC84</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Species: Oncorhynchus mykiss</td> <td></td> <td></td> </tr> <tr> <td>Toxicity to Micro-Organisms (MMA)</td> <td>ECO: 100 mg/l</td> <td></td> <td>starting inhibition of cell growth</td> </tr> <tr> <td></td> <td>Species: Pseudomonas putida</td> <td></td> <td></td> </tr> </tbody> </table> </li> <li>• General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system.</li> </ul>	Type of test	Effective concentration	Method	Assessment	Toxicity to fish:	LC-50: ▶79 mg/l	OECD 203		(MMA)	NOEC: 40 mg/l	ISO 7346			Time: 96 h EEC84				Species: Oncorhynchus mykiss			Toxicity to Micro-Organisms (MMA)	ECO: 100 mg/l		starting inhibition of cell growth		Species: Pseudomonas putida		
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<p><b>13 Disposal considerations</b></p> <ul style="list-style-type: none"> <li>• Product:</li> <li>• Recommendation: Must be specially treated adhering to official regulations.</li> <li>• European waste catalogue: 07.01.04  other organic solvents, washing liquids and mother liquors. Uncleaned packaging</li> <li>• Recommendation: Disposal must be made according to official regulations.</li> </ul>																												

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**14 Transport information**

- Land transport ADR/RID (cross-border)



ADR/RID class: 3 (F1) Flammable liquids.

Danger code (Kemler): 339

UN-Number: 1247

Packaging group: II

Hazard label 3

Description of goods: 1247 METHYL METHACRYLATE MONOMER, STABILIZED

- Maritime transport IMDG:



IMDG Class: 3

UN Number: 1247

Label 3

Packaging group: II

EMS Number: F-E,S-D

Marine pollutant: No

Proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

- Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 3

UN/ID Number: 1247

Label 3

Packaging group: II

Proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

**15 Regulations**

- Labelling according to EU guidelines:  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials
- Code letter and hazard designation of product:  
Xi Irritant  
F Highly flammable
- Hazard-determining components of labelling:  
methyl methacrylate
- Risk phrases:  
11 Highly flammable.  
37/38 Irritating to respiratory system and skin.

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43 May cause sensitization by skin contact.

- Safety phrases:

2 Keep out of the reach of children.

24 Avoid contact with skin.

37 Wear suitable gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

- National regulations

- Technical instructions (air):

Class	Share in %
II	75-100

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

**16 Other information:**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant R-phrases

11 Highly flammable.

37/38 Irritating to respiratory system and skin.

43 May cause sensitization by skin contact.

- Department issuing MSDS: anax dent GmbH

- Contact: Mr. Andreas Kopietz