

# msds MICROSTAR®

## New Outline Skin Primer

### 1 Identification of Substance:

Material Safety Data Sheet

Date: 10-17-2007

Identification of Substance and Product Details

**Trade Name:** New Outline Skin Primer

#### Supplier:

**MICROSTAR®** Dental LLC

1000 Lakes Pkwy.

Lawrenceville, GA 30043

www.microstardental.com

#### Emergency Information:

During Normal Business Hours, 1-800-313-6427 or 1-770-339-5757

### 2 Composition/Data on Components:

#### Chemical characterization:

##### CAS No. Description:

- 80-62-6 methyl methacrylate

##### Identification number(s):

- EINECS Number:** 201-297-1

- EU Number:** 607-035-00-6

### 3 Hazard Identification:

#### Hazard description:

Xi Irritant

F Highly flammable

#### Information concerning to particular hazards to man and environment

R 11 Highly flammable.

R 37/38 Irritating to respiratory system and skin.

R 43 May cause sensitization by skin contact.

### 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** Call a doctor immediately.

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### 5 Fire Fighting Measures:

#### Suitable extinguishing agents

- Carbon dioxide
- Fire-extinguishing powder
- Foam

- Water spray

**For safety reasons unsuitable extinguishing agents** Water with full jet.

**Protective equipment:**

- Wear self-contained respiratory protective device.
- Wear fully protective suit.

**6 Accidental Release Measures:**

**Personal safety precautions:**

- Ensure adequate ventilation
- Keep away from ignition sources
- Wear protective clothing.

**Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

**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.

**7 Handling and Storage:**

**Handling**

**Information for safe handling:**

- Keep receptacles tightly sealed.
- Ensure good ventilation/exhaustion at the workplace.

**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.

**Storage**

**Requirements to be met by storerooms and receptacles:**

- Store only in the original receptacle.
- Do not store at temperatures over 30 °C.
- Only fill the container up to 90 %.
- Store in a cool location.

**Information about storage in one common storage facility: -**

**Further information about storage conditions:** Protect from exposure to the light.

**Storage class**

**Class according to regulation on flammable liquids:** A I

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**8 Exposure Controls and Personal Protection Gear:**

**Additional information about design of technical facilities:** No further data; see item 7.

**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

**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:**

- Use suitable respiratory protective device when high concentrations are present.
- Short term filter device:

Filter AX.

**Protection of hands:** Protective gloves.

**Material of gloves** Rubber gloves

**Penetration time of glove material -**

**Eye protection:** Tightly sealed goggles.

**Body protection:**

Protective work clothing. (Only when handling large quantities)

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## 9 Physical and Chemical Properties:

### General Information

**Form:**

**Color:**

**Odor:**

Fluid

Colorless

Ester-like

**Change in condition**

**Melting point/Melting range:**

**Boiling point/Boiling range:**

-48°C

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/vapor mixtures are possible.

**Explosion limits:**

**Lower:**

**Upper:**

2.1 Vol %

12.5 Vol %

**Vapor pressure at 20°C:** 40 mbar

**Density at 20°C:** 0.94 g/cm<sup>3</sup>

**Solubility in / Miscibility with**

**Water at 20°C:** 15.9 g/l

**Viscosity:**

**dynamic at 20°C:** 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

**Dangerous decomposition products:** -

## 11 Toxicological Information:

**Acute toxicity:**

**LD/LC50 values relevant for classification:**

**80-62-6 methyl methacrylate**

Oral

Dermal

LD50

LD50

> 5 000 mg/kg (rat)

> 5 000 mg/kg (rab)

**Primary irritant effect:**

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Sensitization:** Sensitization possible through skin contact.

**Additional toxicological information:**

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.

**Irritant**

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**12 Ecological Information:**

**Behavior in environmental systems:**

**Components:**

methyl methacrylate Biodegradability: 30,7 %

Time: 28 d

Method: OECD 301 C

Valuation: difficult to decompose

**Ecotoxicological effects:**

**Acquatic toxicity:**

**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- ECO: 100 mg/l starting inhibition

Organisms Species: of cell growth

(MMA) Pseudomonas putida

**General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

**13 Disposal Considerations:**

**Product:**

**Recommendation** Must be specially treated adhering to official regulations.

**European waste catalogue**

07 01 04 other organic solvents, washing liquids and mother liquors

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

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**14 Transport Information:**

**Land transport ADR/RID (cross-border)**

· **ADR/RID class:**

**Item:**

**Danger code (Kemler):**

**UN-Number:**

**Hazard label**

**Description of goods:**

3 Flammable liquids

3b

339

1247

3

1247 Methyl methacrylate monomer, inhibited

**Maritime transport IMDG:**

**IMDG Class:**

**Page:**

**UN Number:**

**Packaging group:**

**EMS Number:**

**MFAG:**

**Marine pollutant:**

**Proper shipping name:**

3.2

3259

1247

II

3-07

330

No

Methyl methacrylate monomer, inhibited

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:**

**UN/ID Number:**

**Packaging group:**

**Proper shipping name:**

3

1247

II

Methyl methacrylate monomer, inhibited

**15 Regulations:**

**Labeling 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

**Risk phrases:**

11 Highly flammable.

37/38 Irritating to respiratory system and skin.

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.

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**National regulations**

**Classification according to VbF: A I**

**Technical instructions (air):**

**Class Share in %**

II 75-100

**Water hazard class:** Water hazard class 1 (Assessment by list): 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.