

msds MICROSTAR®

New Outline Skin Glaze

1 Identification of Substance:

Material Safety Data Sheet

Date: 10-17-2007

Identification of Substance and Product Details

Trade Name: New Outline Skin Glaze

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

Description: Liquid based on methacryl acid ester.

Dangerous Components

CAS: 80-62-6

EINECS: 201-297-1

methyl methacrylate Xi; R 37/38-43 50-75%

Aromatic urethane acrylate Xi; R 37/38-43 25-50%

3 Hazard Identification:

Hazard description:

Information concerning the particular hazards to man and environment:

The product has to be labeled 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 36/37/38 Irritating to eyes, 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, and extended by company and literature data.

4 First Aid Measures:

General information: immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

Xi Irritant

F Highly

After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

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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. If

symptoms persist consult doctor.

5 Fire Fighting Measures:

Suitable extinguishing agents:

- Carbon dioxide
- Fire-extinguishing powder
- Foam
- Water haze

For safety reasons unsuitable extinguishing agents: Water with full jet.
Special hazards caused by the substance, its products of combustion or resulting gases:

- Can form explosive gas-air mixtures.
- Danger of polymerization.

Protective equipment: Wear self-contained respiratory protective device.

Additional information

- Cool endangered receptacles with water spray.
- Collect contaminated fire fighting water separately. It must not enter the sewage system.
- Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental Release Measures:

Personal safety precautions:

- Ensure adequate ventilation
- Keep away from ignition sources
- Wear protective clothing.
- Avoid eye and skin contact with the substance.

Measures for environmental protection:

- Do not allow product to reach sewage system or any water course.
- Do not allow to penetrate the ground/soil.

Measures for cleaning/collecting:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Send for recovery or disposal in suitable receptacles.
- When pumping out, please ensure grounding.

7 Handling and Storage:

Handling

- Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
- Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

Storage

- Requirements to be met by storerooms and receptacles: Only fill the container up to 80 %.
 - Close container immediately after use and protect product from light incidence.
 - Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

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Storage class

- Class according to regulation on flammable liquids: A I

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/m₃, 100 ppm

Long-term value: 208 mg/m₃, 50 ppm

Additional information: The lists valid during the making were used as basis.

Personal protective equipment

General protective and hygienic measures:

- o Keep away from foodstuffs, beverages and feed.
- o Immediately remove all soiled and contaminated clothing
- o Wash hands before breaks and at the end of work.
- o Avoid contact with the eyes and skin.

Respiratory protection: Short term filter device: Filter AX.

Protection of hands: Protective gloves.

Material of gloves: Rubber gloves

Penetration time of glove material -

Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and Chemical Properties:

General Information

Form: Fluid

Color: Colorless

Odor: Ester-like

Change in condition

Melting point/Melting range: - 48°C

Boiling point/Boiling range: 101°C

Flash point: 10°C

Ignition temperature: 430°C

Self-igniting: Product is not self igniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures is possible.

Explosion limits:

Lower: 2.1 Vol %

Upper: 12.5 Vol %

Vapor pressure at 20°C: 40 mbar

Density at 20°C: 0.95 g/cm₃

Solubility in / Miscibility with Water: (20 °C) 15 g/l

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Viscosity:

dynamic: Not determined

kinematics: Not determined

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 -

Dangerous decomposition products: -

11 Toxicological Information :

Acute toxicity:

LD/LC50 values relevant for classification:

methyl methacrylate LD-50 oral >5000 mg/kg rat (lit.)

LD-50 inhalativ 7093 ppm/4h rat (lit.)

Aromatic urethane acrylate LD-50 oral 2500 mg/kg rat (lit.)

dermal 4000 mg/kg rab (lit.)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes. Aromatic urethane acrylate slightly irritating Species unknown

on the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact. Sensitization possible through inhalation.

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

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:

Aquatic 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

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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.

13 Disposal Considerations :

Product:

Recommendation: Must be specially treated adhering to official regulations.

European waste catalogue

08 01

11

waste paint and varnish containing organic solvents or other dangerous substances

Uncleaned packaging:

Recommendation: Packaging that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport Information :

Land transport ADR/RID (cross-border)

ADR/RID class: 3 Flammable liquids.

Item: 3b Danger code (Kemler): 33 UN-Number: 1247

Hazard label 3 Description of goods: 1247 Methyl methacrylate monomer, inhibited, mixture

Maritime transport IMDG:

IMDG Class: 3.2 · Page: 3259 UN Number: 1247

Packaging group: II EMS Number: 3-07 MFAG: 330

Marine pollutant: No

Proper shipping name: Methyl methacrylate monomer, inhibited, mixture

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3 UN/ID Number: 1247

Packaging group: II Proper shipping name: Methyl methacrylate monomer, inhibited, mixture

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

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Hazard-determining components of labeling:

methyl methacrylate Aromatic urethane acrylate

Risk phrases:

11 Highly flammable.

36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitization by skin contact.

Safety phrases:

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37/39 Wear suitable gloves and eye/face protection.

60 This material and its container must be disposed of as hazardous waste.

National regulations

Classification according to VbF: A I

Technical instructions (air):

Class Share

in %

II 50-75

Water hazard 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

36/38 Irritating to eyes and skin.

37/38 Irritating to respiratory system and skin.
43 May cause sensitization by skin contact.