

# SAFETY DATA SHEET

## according to EC- directive 91/155/EC



Product Trade Name: Metrotray

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Version 3

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier  
Product Name Light Curing custom tray material

Details of the supplier of the safety data sheet  
Supplier Metrodent Limited  
Lowergate Works, Lowergate  
Paddock, Huddersfield  
United Kingdom  
+44 1484 461616  
sales@metrodent.com

Emergency contacts  
Office Hours Metrodent Limited  
+44 1484 461616

Recommended intended purpose(s)  
Dental

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical characterization:<br>Ingredients | Hazardous Ingredients<br>Cas-No./ EINECS-No./ EG-No.           | Percentage (%) | Identification |
|---|--|----------------|----------------|
| Oligomeric urethane acrylate              |  | 0-10           | Xi, R36        |
| Vinyl ester resin (acrylates)             |  | 0-10           | none           |
| Triethylenglycoldi-methacrylate           | Cas-No. 109-16-0<br>EINECS-No.203-652-6<br>EG-No. 607-114-00-5 | 0-10<br>-<br>- | none<br>-<br>- |
| Phosphine oxide                           | -  | 0-1            | Xn, R62        |

### 3. HAZARDS IDENTIFICATION

Potential Hazards: irritant  
Categorization: Xi, R36/37/38  
Additional hazard advices for human and environment: none

### 4. FIRST AID MEASURES

General Advices: Take off with product contaminated clothes.  
After skin contact: Wash off skin with soap and water. Contact a physician if the skin is irritated.  
After eye contact: Rinse eyes an efficient time.  
Contact ophthalmologist if irritation is persisting.  
After inhalation: Take person to fresh air.  
After swallowing: Seek medical advice immediately.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents: Foam, Dry powder, carbon dioxide, waterspray-stream.  
Adjust fire-fighting-measures to ambiance.  
For safety reasons unsuitable extinguishing media: none  
Particular danger through the product itself,  
its combustion products or gases: not known  
Protective equipment for fire-fighters: Use conventional measures to combat chemical fires, that means use self-contained breathing apparatus (isolating-unit).

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### 6. Accidental release measures

|                                    |   |
|------------------------------------|---|
| Personal precautions:              | Arrange for fresh air.  |
| Environmental protection measures: | Do not drain into canalization.   |
| Methods for cleaning / absorption: | Pick up material mechanically. Dispose only complete light cured material. Dispose material under adherence to the local official rules for hazardous wastes. |

### 7. Handling and storage

|  |  |
|--|--|
| Handling:  | The conventional precautions for works with chemicals are to be adhered. Wear overall while working. |
| Information about fire and explosion protection: | No special measures necessary.   |
| Storage conditions:                              | Store at a cool, dry and light protected place.  |
| Storage time:                                    | 3 years if storage conditions will be adhered to.  |

### 8. Exposure controls/personal protection

Limit values for the exposition at work station and / or biological limit values

Work station limit values (AGW) Germany

PNCE and DNCL-Values as to be possibly worked out in a preparation safety report do not exist.

Personal protective equipment: Pay attention of protection- and hygienic measures. Protection clothes must be stored separately. The usual precaution measures must be attended.

|                            |  |
|----------------------------|--|
| Breathing protection:      | not necessary  |
| Eye protection:            | Wear protection goggles when working with material   |
| Hand protection:           | Sensibilisation: Wearing of applicable protection gloves is recommended. (by experience of the past / literature) for example Ethiparat@-gloves for 5-10 minutes, application of No-touch-Technik, minimal-contact techniques is recommended |
| Body protection:           | Wear business usual protection clothes.  |
| Other protection measures: | none   |

Advices for hygienic at work station: Comply business usual protection- and hygienic measures. Preventive skin protection. Wash hands and skin after finishing work.

### 9. Physical and chemical properties

|                       |   |
|-----------------------|---|
| Appearance:           |   |
| Form:                 | upper jaw and lower jaw pattern, kneadable mass   |
| Appearance:           | paste-like mass   |
| Colour:               | pink or blue  |
| Odour/Flavour:        | acrylates / methacrylates   |
| Safety relevant data: | Flash point: not available (approx. > 100°C) appreciated by the flash point of the ingredients<br>no symbol necessary |
| Density:              | not available   |
| Solubility in water:  | insoluble in water  |
| Ph-value:             | not applicable  |

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### 10. Stability and reactivity

|                                   |   |
|-----------------------------------|---|
| Conditions to avoid               | Beware of heat, solar radiation and light impact to avoid early slow polymerization.  |
| Substances to avoid               | Radical former (product polymerises slowly at contact)  |
| Hazardous decomposition products: | None, if used according to directions.  |
| Further information:              | After considerably exceedance of storage time and / or exceedance of storage temperature it is possible that the product starts polymerizing under low heat impact. |

### 11. Toxicological information

|                                |  |
|--------------------------------|--|
| Acute Toxicity                 |  |
| At skin:                       | irritation   |
| At Eyes:                       | irritation   |
| At respiratory system:         | irritation   |
| Kinetic of the toxic reaction: | According the new Material Safety Data Sheet according to REACH, specifications about kinetic of the toxic reaction, metabolism of the substance and allocation of t the substance in the human body must be mentioned at this place. Data for this is not available . |
| Further Information:           | The product is to be labelled. By appropriate exposure and conventionally use and to our experiences and informations the product causes no hazardous effects.   |
| Further details:               | The product has to handled with the usual care when handling chemicals.<br>Methacrylates may cause allergicl reactions.  |

### 12. Ecological information

|  |   |
|--|---|
| Fish toxicity:   | not applicable  |
| Water organism:  | not applicable  |
| Bacteria toxicity:                                       | not applicable  |
| Further detail to ecology:                               | Do not allow product to reach ground water, body of waters or sewage system!                              |
| Bioaccumulation potential:                               | No data available   |
| Effect of the determination of the PTB- and vPvB-Report: | Endocrine disruption potential If the material causes hormonal effects or prevents them is unknown to us. |

### 13. Disposal considerations

|                                   |   |
|-----------------------------------|---|
| Substance / Preparation           | To dispose of accordingly with notice of the local regulations of authority.<br>Do not empty into drains.                             |
| Disposal key according to Package | AWV regulation 16 03 05 (organic disposal, that contains hazardous substances)<br>Packages that are not contaminated can be recycled. |

### 14. Transport information

Land transport ADR/RID  
Classification  
Class: - (no hazardous material in terms of transport rules)  
UN-Number: -  
Classification code: -  
Description of the good: Lightcuring tray material  
Hazard cause: -  
Packaging  
Packaging group: not applicable, because it is not a flammable substance  
Hazard sheet: not applicable  
Limited Quantities: no information

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Maritime transport IMDG/GGVSea

Classification

IMDG-Code: -

UN-Number: -

EmS:

Marine Pollutant: No

Description of the good: Lightcuring tray material

Hazard cause: -

Packaging

Packaging group: not applicable, because it is not a flammable substance

Hazard sheet: not applicable

Air transport ICAO-TI and IATA-DGR

Classification

Class: -

UN-Number: -

Description of the good: Lightcuring tray material

Hazard cause: -

Packaging

Packaging group: not applicable,

### 15. Regulatory information

Labelling according EU guidelines

Code letter and hazard description of the product:

Xi; irritant

R36/37/38 Irritating to eyes, respiratory system and skin

GHS-Labelling:

Caution

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H315 Causes skin irritation

Hazard decisive components for the labelling

contains: --

Safety Assessments

Safety Assessments for substances in this preparation were not executed

National Rules

Water hazard class

Water Hazard Class 2 (Estimation on the basis of the ingredients)

### 16. Other information

Further applicable EG Guidelines

Guideline for preparation (1999/45/EC), at last changed by the guideline 2006/8/EC.

Substance Guideline (67/548/EWG), at last changed by the guideline 2006/121 EC.

REACH-Guideline (EC) No. 1907/2006

Manufacturer´s suggested application restriction:

Only for commercial use – no public product

R-phrases on which is referred in chapter 2 and 3

36/37/38 irritants the eyes, respiratory systems and skin

Changes compared to the last version Change of GHS-Labelling Change of composition/information on ingredients Change of Hazard Identification

Change of Regulatory Information

Department issuing MSDS: Technical

Some of the information presented and conclusions drawn herein are from sources other than direct test-data on the product itself.

The contents and format of this MSDS are in accordance with EEC Commission (EC) No. 1907 / 2006.

Disclaimer of Liability

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