

## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:

**HyCeram opaque colors / pearl colors / luminex colors**

In the following colours:

opaque colors: organic white; deep white; indian yellow; oriental orange; granada red; zirkon red; columbia blue; coral blue; arizona blue; inca turquoise; lotus green; lakota pink; Persian violet; platin grey; veneto brown; onyx black; deep black.

pearl colors: pearl white; pearl silver; pearl rose; pearl gold; pearl red; pearl bronze; pearl anthracite; sparkling brown sparkling black.

luminex colors: luminex white; luminex yellow; luminex turquoise; luminex green.

1.2. Relevant identified uses of the mixture and uses advised against:

Repair material for natural stone, ceramics and other materials to create decorative surfaces, for professional use.

1.3. Details of the supplier of the safety data sheet:

**Invicon Chemical Solutions GmbH**

Schweizerstrasse 96

A-6830 Rankweil

Tel: +43-(0)5522-45301

E-Mail: [office@invicon.at](mailto:office@invicon.at)

Information about the manufacturer:

**Invicon Chemical Solutions GmbH**

Schweizerstrasse 96

A-6830 Rankweil

Tel: +43-(0)5522-45301

E-Mail: [office@invicon.at](mailto:office@invicon.at)

1.3.1. Responsible person:

Peter Bubendorfer

E-mail:

[p.bubendorfer@invicon.at](mailto:p.bubendorfer@invicon.at)

1.4. Emergency telephone number:

**Public Toxicological Health Service (ETTSZ)**

1096 Budapest, Nagyvárad tér 2.

Tel.: 06 1 476 6464, 06 80 201 199 (0-24)

### SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the mixture:

Classification according to Regulation 1272/2008/EC (CLP):

**Not considered as hazardous mixture.**

Warning **H statements:** none.

2.2. Label elements:

Warning **H statements:** none.

Precautionary **P statements:**

**P273** – Avoid release to the environment.

**EUH 210** – Safety data sheet available on request.

2.3. Other hazards:

The product has no other known specific hazards for human or environment.

Results of PBT and vPvB assessment: no data available.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1. Substance:  
Not applicable.

3.2. Mixture:

Mixture of the following substances, containing non-hazardous substances and colouring agents.

The pigments are not considered as hazardous, or their concentrations do not reach the extent stated in the relevant regulations, therefore it is not necessary to indicate them in the safety data sheet.

Hazardous ingredient:

Description	CAS number	EU number	REACH reg. nr.	Conc. (%)	Classification: 1272/2008/EC (CLP)		
					Hazard pict.	Hazard cat.	H phrase
<b>7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat*</b>	72869-86-4	276-957-5	-	20-24	-	Aquatic Chronic 3	H412

\*: Substance classified by the manufacturer or substance which has no obligatory classification according to the EU regulations.

For the full text of H phrases: see Section 16.

**SECTION 4: FIRST AID MEASURES**

4.1. Description of first aid measures:

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

IN CASE OF INGESTION:

Measures:

- Do not induce vomiting.
- Immediately call for medical help.
- A person vomiting while lying on their back should be turned onto their side.

IN CASE OF INHALATION:

Measures:

- Supply fresh air; consult doctor in case of complaints.
- In case of unconsciousness place patient stably in side position for transportation.

IN CASE OF SKIN CONTACT:

Measures:

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

IN CASE OF EYE CONTACT:

Measures:

- In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for several minutes).
- Obtain medical help.

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

No data available.

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

No data available.

**SECTION 5: FIREFIGHTING MEASURES**

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

Foam, extinguishing powder, carbon dioxide.

5.1.2. Unsuitable extinguishing media:

Water.

5.2. Special hazards arising from the substance or mixture:

Formation of toxic gases is possible during heating or in case of fire, the inhalation of such combustion products can have serious adverse effects on health.

5.3. Advise for firefighters:

Wear full protective clothing and self-contained breathing apparatus.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- 6.1. Personal precautions, protective equipment and emergency procedures:
- 6.1.1. For non-emergency personnel:  
Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.
- 6.1.2. For emergency responders:  
Ensure adequate ventilation.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with the eyes and skin.  
Wear appropriate personal protective equipment.
- 6.2. Environmental precautions:  
Dispose the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.
- 6.3. Methods and material for containment and cleaning up:  
Collect the spilled product with absorbent (sand, diatomite, acid binders, universal binders, sawdust), then place into a suitable waste container for removal/disposal. Dispose of the collected material according to regulations.
- 6.4. Reference to other sections:  
For further and detailed information see section 8. and 13.

**SECTION 7: HANDLING AND STORAGE**

- 7.1. Precautions for safe handling:  
Observe conventional hygiene precautions.  
Technical measures:  
Ensure adequate ventilation.  
Precautions against fire and explosion:  
No special measures required.
- 7.2. Conditions for safe storage, including any incompatibilities:  
Technical measures and storage condition:  
Keep away from heat and direct sunlight.  
Keep in original, closed container.  
Store away from foodstuffs.  
Store in cool, dry conditions in well-sealed receptacles.  
Store receptacle in a well ventilated area.  
Incompatible materials: none known.  
Packaging material: no special prescriptions.
- 7.3. Specific end use(s):  
No specific instructions available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters:

Occupational exposure limit values:

The components of the mixture are not regulated with exposure limit value.

DNEL		Routes of exposure	Exposure frequency:	Remarks:
Worker	Consumer			
no data available	no data available	Dermal	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Inhalative	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Oral	Short term (acute) Long term (repeated)	no data available

PNEC			Exposure frequency:	Remarks:
Water	Soil	Air		
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

## 8.2.1. Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid leaking onto clothes and floors and to avoid contact with eyes and skin.

## 8.2.2. Individual protection measures, such as personal protective equipment:

Keep away from foodstuffs, beverages and feed.

Be sure to clean skin thoroughly after work and before breaks.

1. Eye/face protection: use appropriate tightly sealed protective glasses (EN 166).

2. Skin protection:

a. Hand protection: use appropriate protective gloves made of butyl rubber (EN 374). Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material: The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

b. Other: use appropriate protective clothes.

3. Respiratory protection: use appropriate respiratory protective device in case of insufficient ventilation.

4. Thermal hazards: none known.

## 8.2.3. Environmental exposure controls:

No specific prescription.

**The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert's advice should be sought out before deciding upon further protective measures.**

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties:

Parameter	Test method:	Remarks:
1. <b>Appearance:</b>		liquid in different colours, according to product names
2. <b>Odour:</b>		no data available
3. Odour threshold:		no data available
4. pH value:		not applicable
5. Melting point/ freezing point:		no data available
6. Initial boiling point and boiling range:		>200°C
7. Flash point:		>100°C
8. Evaporation rate:		no data available
9. Flammability (solid, gas):		not applicable
10. Upper/lower flammability or explosive limits:		no data available
11. Vapour pressure:		no data available
12. Vapour density:		no data available
13. Relative density:		no data available
14. Solubility(ies):		<1gr/L
15. Partition coefficient: n-octanol/water:		no data available
16. Auto-ignition temperature:		not self-igniting
17. Decomposition temperature:		>200°C
18. Viscosity:		no data available
19. Explosive properties:		does not present an explosion hazard
20. Oxidizing properties:		no data available

9.2. Other information:

No data available.

**SECTION 10: STABILITY AND REACTIVITY**

- 10.1. Reactivity:  
None known.
- 10.2. Chemical stability:  
Stable within normal temperature and general work conditions.
- 10.3. Possibility of hazardous reactions:  
At temperatures above 110°C, a spontaneous, exothermic polymerization may occur in the CeraPower polymerisation unit.  
The product is converted into an inert solid (application purpose).
- 10.4. Conditions to avoid:  
None known.
- 10.5. Incompatible materials:  
None known.
- 10.6. Hazardous decomposition products:  
No dangerous products of decomposition if used and stored according to specifications.

**SECTION 11: TOXICOLOGICAL INFORMATION**

- 11.1. Information on toxicological effects:  
Acute toxicity: based on the information available, the criteria for classification is not fulfilled.  
Skin corrosion/irritation: based on the information available, the criteria for classification is not fulfilled.  
Serious eye damage/eye irritation: based on the information available, the criteria for classification is not fulfilled.  
Respiratory or skin sensitisation: based on the information available, the criteria for classification is not fulfilled.  
Germ cell mutagenicity: based on the information available, the criteria for classification is not fulfilled.  
Carcinogenicity: based on the information available, the criteria for classification is not fulfilled.  
Reproductive toxicity: based on the information available, the criteria for classification is not fulfilled.  
STOT-single exposure: based on the information available, the criteria for classification is not fulfilled.  
STOT-repeated exposure: based on the information available, the criteria for classification is not fulfilled.  
Aspiration hazard: based on the information available, the criteria for classification is not fulfilled.
- 11.1.1. For substances subject to registration, brief summaries of the information derived from the test conducted:  
No data available.
- 11.1.2. Relevant toxicological properties of the hazardous substances:  
**7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat** (CAS-number: 72869-86-4):  
LD50 (oral, rat): > 2000 mg/kg
- 11.1.3. Information on likely routes of exposure:  
Ingestion, inhalation, skin contact, eye contact.
- 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:  
No data available.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:  
No data available.
- 11.1.6. Interactive effects:  
No data available.
- 11.1.7. Absence of specific data:  
No information.
- 11.1.8. Other information:  
No data available.

**SECTION 12: ECOLOGICAL INFORMATION**

- 12.1. Toxicity:  
The mixture has not been tested ecotoxicologically.  
The classification of this mixture was performed based on the calculation method detailed in "General Classification guideline for mixtures of the EU" in the latest valid version.  
Not classified as hazardous for the environment.  
Do not allow product to reach ground water, water course or sewage system.
- 12.2. Persistence and degradability:  
No data available.
- 12.3. Bioaccumulation potential:  
No data available.
- 12.4. Mobility in soil:  
No data available.
- 12.5. Results of PBT and vPvB assessment:  
No data available.
- 12.6. Other adverse effects:  
No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

- 13.1. Waste treatment methods:  
Disposal according to the local regulations.
- 13.1.1. Information regarding the disposal of the product:  
Hand over to hazardous waste disposers.  
Disposal must be made according to official regulations.  
European Waste Code:  
For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpose of application defined by the user enables an allocation. The European waste code number has to be determined after a discussion with a specialist dealing with waste disposal.
- 13.1.2. Information regarding the disposal of the packaging:  
Dispose according to the relevant regulations.
- 13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:  
None known.
- 13.1.4. Sewage disposal:  
None known.
- 13.1.5. Special precautions for any recommended waste treatment:  
No data available.

**SECTION 14: TRANSPORT INFORMATION**

**Not dangerous good in sense of the transport regulations.**

- 14.1. UN Number:  
None.
- 14.2. UN proper shipping name:  
None.
- 14.3. Transport hazard class(es):  
None.
- 14.4. Packaging group:  
None.
- 14.5. Environmental hazards:  
No relevant information available.
- 14.6. Special precautions for user:  
No relevant 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:  
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC  
  
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006  
  
Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 15.2. Chemical safety assessment: no information available.

## SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: none.

Full text of the abbreviations in the safety data sheet:

DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenicity, mutagenicity and toxicity for reproduction. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent, Very Bioaccumulative. n.d.: not defined. n.a.: not applicable.

Data sources: data provided by the manufacturer (e.g. composition)

Methods used for the classification according to Regulation 1272/2008/EC: not classified based on the calculation method of the known hazards of the ingredients.

Relevant H-Phrases (number and full text) of Section 2 and 3:

**H412** – Harmful to aquatic life with long lasting effects.

Training advice: no data available.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product. It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by: ToxInfo Kft.

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