



Safety Data Sheet according to WHS Regulations

Date of issue: 21.08.2026

Revision: 21.08.2026

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1 Identification

- **Other means of identification**
- **Trade name:** *ExperTemp™ (All Shades)*
- **Article number:** SDS 336-001.09R02, 6340, 6341, 6344, 6347
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Manufactured by Kettenbach GmbH & Co. KG for:
Ultradent Products, Inc.
505 W. Ultradent Drive (10200 S)
South Jordan, UT 84095-3942
USA
onlineordersupport@ultradent.com
(800) 552-5512

Ultradent Australia Pty Ltd.
Level 22/2 Market Street
Sydney NSW 2000
Australia
Email: info.anz@ultradent.com
Toll Free: 1-800-290929
- **Further information obtainable from:** Customer Service
- **Emergency telephone number:**
CHEMTREC (NORTH AMERICA) : +1 (800) 424-9300
(INTERNATIONAL) : +(703) 527-3887

2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS08 health hazard

Carcinogenicity – Category 1A

H350

May cause cancer.

Reproductive toxicity – Category 2

H361fd

Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific target organ toxicity (repeated exposure) – Category 1

H372-H373

Causes damage to organs through prolonged or repeated exposure. May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS07

Skin sensitisation – Category 1

H317

May cause an allergic skin reaction.

- **Additional information:** The full text of the classification and labelling elements mentioned is given in Section 16.

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- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** GHS07, GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
 - Cristobalite (30-<60 %)
 - Diurethane Dimethacrylate (15-<40 %)
 - 1,12-Dodecanediol dimethacrylate (3-<7 %)
- **Hazard statements**
 - H317 May cause an allergic skin reaction.
 - H350 May cause cancer.
 - H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 - H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Precautionary statements**
 - P101 If medical advice is needed, have product container or label at hand.
 - P102 Keep out of reach of children.
 - P103 Read label before use.
 - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P308+P313 IF exposed or concerned: Get medical advice/attention.
 - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Preparation of multifunctional methacrylates, filler materials and additives

- **Dangerous components:**

14464-46-1	Cristobalite	30-<60%
	⚠ Carcinogenicity – Category 1A, H350; Specific target organ toxicity (repeated exposure) – Category 1, H372	
72869-86-4	Diurethane Dimethacrylate	15-<40%
	⚠ Skin sensitisation – Category 1, H317	
72829-09-5	1,12-Dodecanediol dimethacrylate	3-<7%
	⚠ Skin sensitisation – Category 1B, H317	
68909-20-6	Hydrophobic Pyrogenic Silica	1-<5%
	⚠ Specific target organ toxicity (repeated exposure) – Category 2, H373	

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- **General information:**
 - In case of accident or unwellness, seek medical advice immediately (show directikons for use or safety data sheet if possible).
 - Immediately remove any clothing soiled by the product.
 - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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- **After inhalation:**
Supply fresh air.
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Immediately flush eyes with plenty of water for several minutes, while holding eyelids apart.
- **After swallowing:**
Rinse mouth with water.
Do NOT induce vomiting.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- **Indication of any immediate medical attention and special treatment needed**
First Aid, decontamination, treatment of symptoms.

5 Fire Fighting Measures

- **Suitable extinguishing agents:**
All standard extinguishing agents are suitable.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None known
- **Special hazards arising from the substance or mixture**
Thermal decomposition can lead to the escape of irritating gases and vapors.
Carbon monoxide
Carbon dioxide (CO₂)
During heating or in case of fire poisonous gases are produced.
- **Protective equipment:**
Wear a self-contained breathing apparatus and chemical protective clothing
Mouth respiratory protective device.
- **Additional information** Suppress gases/vapors/mists with water spray jet

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
Use personal protection equipment.
Mount respiratory protective device.
- **For non-emergency personnel** Do not breathe mist/vapors/spray.
- **Environmental precautions:**
Do not allow to enter into surface water or drains.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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7 Handling and Storage

- **Handling:** Wash contaminated clothing before reuse.
- **Precautions for safe handling:**
 - Wear personal protection equipment (refer to section 8).
 - Keep away from heat, flame and direct sunlight.
 - Ensure good ventilation/exhaustion at the workplace.
 - Open and handle receptacle with care.
 - Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
 - Usual measures for fire prevention.
 - Keep respiratory protective device available.
- **Storage:**
 - Requirements to be met by storerooms and receptacles:** Store in tightly closed container.
 - Information about storage in one common storage facility:** Not required
 - Further information about storage conditions:**
 - Please pay attention to the information on the package
 - Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

- **Appropriate engineering controls** No further data; see section 7.

- **Ingredients with limit values that require monitoring at the workplace:**

14464-46-1 Cristobalite

WES	Long-term value: 0.05 mg/m ³ respirable dust
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- **Additional information:**
 - None.
 - The lists valid during the making were used as basis.
- **Personal protective equipment:**
 - General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Store protective clothing separately.
- **Respiratory protection:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Suitable material:

Butyl rubber., NR (Natural rubber (Caoutchouc), Natural latex), PVC (Polyvinyl chloride).

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Unsuitable material;

NBR (Nitrile rubber).

The selection of 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 can not 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.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and Chemical Properties

· **General Information**

· **Appearance:**

· **Form:**

Paste

· **Colour:**

tooth-colored

· **Odour:**

almost odourless

· **Odour threshold:**

Not determined

· **pH-value:**

Not available

· **Change in condition**

· **Melting point/freezing point:**

Not available

· **Initial boiling point and boiling range:**

Not available

· **Flash point:**

>100 °C

· **Flammability**

Not available

· **Auto-ignition temperature:**

>300 °C

· **Decomposition temperature:**

Not available

· **Ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:**

Not available

· **Upper:**

Not available

· **Vapour pressure:**

Not available

· **Density at 20 °C:**

~1.4 g/cm³

· **Relative density**

Not available

· **Vapour density**

Not available

· **Evaporation rate**

Not determined

· **Solubility in / Miscibility with**

· **water:**

Not available

· **Partition coefficient: n-octanol/water:**

Not available

· **Viscosity:**

· **Dynamic at 20 °C:**

~9,000 mPas

· **Kinematic:**

Not available

· **Other information**

The physical data presented above are typical values and should not be construed as a specification.

· **Particle characteristics**

Not available

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· **Physical state** Paste
 Liquid

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under recommended conditions of storage, use and temperature.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** None known
- **Conditions to avoid:** Storage outside of the predetermined storage conditions (see packaging)
- **Incompatible materials:** No specific data.
- **Hazardous decomposition products:**
Carbon monoxide
Carbon dioxide

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

72869-86-4 Diurethane Dimethacrylate

Oral	LD50	>5,000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation
Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Irritant effect on the eye.
Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction (7,7,9(or 7,9,9)
-trimethyl-4, 13-dioxo-3,14-dioxo-5,12-diazaheptadecane-1,16-diyl bismethacrylate; 1,12-DODECANEDIOL DIMETHACRYLATE)
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** May cause cancer.
- **Reproductive toxicity**
Based on available data, the classification criteria are not met.
Suspected of damaging fertility. Suspected of damaging the unborn child.
- **STOT-single exposure**
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**
Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): Cristobalite (CAS 14464-46-1) is listed.

Carcinogenicity (IARC): Cristobalite (CAS 14464-46-1) is listed in group 1.

Carcinogenicity (NTP): Cristobalite (CAS 14464-46-1) is listed in group Known.

Causes damage to organs through prolonged or repeated exposure. May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

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· **Aspiration hazard** Based on available data, the classification criteria are not met.

12 Ecological Information

· **Toxicity**· **Aquatic toxicity:****72869-86-4 Diurethane Dimethacrylate**

EC50 >0.6 mg/kg (Algae)

Biodegradability 28 days (Aerobic) (Biodegradability testing)

· **Persistence and degradability** No further relevant information available.· **Behaviour in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable· **vPvB:** Not applicable· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**· **Recommendation**

Do not remove with domestic waste. Do not allow to enter drains or watercourses.

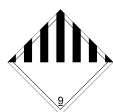
Dispose of contents/container in accordance with international, federal, state, and local regulations.

· **Uncleaned packaging:**· **Recommendation:** Non contaminated packagings may be recycled.

14 Transport information

· **UN-Number**· **ADG, IMDG, IATA**

UN3082

· **UN proper shipping name**· **ADG**3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.· **IMDG, IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.· **Transport hazard class(es)**· **ADG, IMDG, IATA**· **Class**

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· Label	9
· Packing group	
· ADG, IMDG, IATA	III
· Environmental hazards:	Not applicable
· Special precautions for user	Not Applicable
· Hazard identification number (Kemler code):	90
· EMS Number:	F-A,S-F
· Stowage Category	A
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· Transport/Additional information:	
· ADG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	not regulated

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· NIOSH-Ca (National Institute for Occupational Safety and Health)
14464-46-1 Cristobalite
· Australian Inventory of Industrial Chemicals
All ingredients are listed.
· Standard for the Uniform Scheduling of Medicines and Poisons
None of the ingredients is listed.
· Australia: Priority Existing Chemicals
None of the ingredients is listed.
· Directive 2012/18/EU
· Named dangerous substances - ANNEX I None of the ingredients is listed.
· National regulations:
· Information about limitation of use:
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
· Chemical safety assessment:
Device is biocompatible when used as directed by dental professionals per ISO 10993-1

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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 phrases from Section 3**

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

· **Department issuing SDS:** Regulatory Compliance

· **Contact:** Customer Service

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

Skin sensitisation – Category 1: Skin sensitisation – Category 1

Skin sensitisation – Category 1B: Skin sensitisation – Category 1B

Carcinogenicity – Category 1A: Carcinogenicity – Category 1A

Reproductive toxicity – Category 2: Reproductive toxicity – Category 2

Specific target organ toxicity (repeated exposure) – Category 1: Specific target organ toxicity (repeated exposure) – Category 1

Specific target organ toxicity (repeated exposure) – Category 2: Specific target organ toxicity (repeated exposure) – Category 2

· *** Data compared to the previous version altered.**

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