

SAFETY DATA SHEET

Quadrant Universal LC

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product identifier**

Product name : Quadrant Universal LC
Other means of identification : None.
Product type : Solid. Paste.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Dental filling material

Details of the supplier of the safety data sheet**National contact**

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 2031 CJ Haarlem
 The Netherlands

T +31 23 530 7700 E-Mail : dental@cavex.nl
 F +31 23 535 6482 Website : www.cavex.nl

National advisory body/Poison Centre/Emergency telephone number

Telephone number : +31 23 530 7700 (Office hours)

SECTION 2: Hazards identification**Classification of the substance or mixture**

Product definition : Preparation. Product based on methacrylates.
 See Section 16 for the full text of the R phrases or H statements declared above.
 See Section 11 for more detailed information on health effects and symptoms.

Label elements**Europe**

Supplemental label elements : Not applicable.

Other hazards

Other hazards which do not result in classification : Not applicable.

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable.

SECTION 3: Composition/information on ingredients

Substance/mixture : Preparation. Product based on methacrylates.

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Europe					
Urethane dimethacrylate	CAS: 72869-86-4 EC: 276-957-5	10-15	R52/53	H412	-
Pentaerythritol tetra acrylate	CAS: 4986-89-4 EC: 225-644-1	2-5	Xi; R36/38 43	H315; H317; H319	-
Bisphenol A Diglycidyl Methacrylate	CAS: 1565-94-2 EC: 216-367-7	5-10	Xi; R36/38	H315; H317	-
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

Type

1: Occupational exposure limits, if available, are listed in Section 8.

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SECTION 4: First aid measures

Description of first aid measures

- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
- Inhalation** : Not applicable.
- Skin contact** : Non-irritant to skin. Wash contaminated skin with soap and water.
- Ingestion** : Initiate vomiting and consult a doctor.
- Protection of first-aiders** : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Non-irritating to the eyes.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Non-irritant to skin. Sensitizing effect by skin contact is possible by prolonged exposure.
- Ingestion** : No known significant effects or critical hazards.

Indication of any immediate medical attention and special treatment needed

- Notes to physician** : No specific treatment.
- Specific treatments** : Not available.

SECTION 5: Firefighting measures

Extinguishing media

- Suitable extinguishing media** : Use extinguishing media suitable for surrounding materials.
- Unsuitable extinguishing media** : Not applicable

Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire, decomposition may produce toxic gases/fumes.
- Hazardous thermal decomposition products** : In a fire, decomposition may produce toxic gases/fumes.

Advice for firefighters

- Special protective actions for fire-fighters** : Avoid breathing dusts, vapours or fumes from burning materials.
- Special protective equipment for fire-fighters** : No special measures required.
- Additional information** : None.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No special protection is required.
- For emergency responders** : No special protection is required.
- Environmental precautions** : No special measures required.

Methods and materials for containment and cleaning up

- Small spill** : Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage.
- Large spill** : Not applicable.

- Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Precautions for safe handling

- Protective measures** : Prevent formation of dust. Store in a dry place.
- Advice on general occupational hygiene** : Prevent formation of dust. Store in a dry place.

- Conditions for safe storage, including any incompatibilities** : No specific storage is required.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Control parameters

Occupational exposure limits

Europe

No exposure limit value known.

Recommended monitoring procedures : Product does not contain relevant quantities of materials with exposure values that have to be monitored.

DNELs/DMELs : No DNELs/DMELs available.

PNECs : No PNECs available

Exposure controls

Appropriate engineering controls : The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Individual protection measures

Hygiene measures : Wash thoroughly after handling.

Eye/face protection : Safety glasses.

Skin protection

Hand protection : Wear suitable gloves.

Body protection : Lab coat.

Other skin protection : Wash with soap and water.

Respiratory protection : No special protection is required.

Environmental exposure controls : No dangerous substances are released.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state : Solid. (Paste.)

Colour : White to yellowish.

Odour : Odourless.

pH : No results available.

Melting point/freezing point : No results available.

Initial boiling point and boiling range : No results available.

Flash point : >130°C

Relative density : 1,74

Solubility in water : Non water-soluble liquid

Auto-ignition temperature : No flammable ingredients present.

Decomposition temperature : No results available.

Viscosity : No results available.

Oxidising properties : No results available.

Other information : No additional information.

SECTION 10: Stability and reactivity

Reactivity : No additional information.

Chemical stability : The product is stable.

Possibility of hazardous reactions : No known significant effects or critical hazards.

Conditions to avoid : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Incompatible materials : Not applicable.

Hazardous decomposition products : None.

SECTION 11: Toxicological information

Information on toxicological effects

<u>Acute toxicity</u>	: The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
<u>Irritation/Corrosion</u>	: Based on available data, the classification criteria are not met.
<u>Sensitisation</u>	: Sensitizing effect by skin contact is possible by prolonged exposure.
<u>Mutagenicity</u>	: Based on available data, the classification criteria are not met.
<u>Carcinogenicity</u>	: Based on available data, the classification criteria are not met.
<u>Reproductive toxicity</u>	: Based on available data, the classification criteria are not met.
<u>Teratogenicity</u>	: Based on available data, the classification criteria are not met.

Potential acute health effects

<u>Eye contact</u>	: Non-irritating to the eyes.
<u>Inhalation</u>	: No known significant effects or critical hazards.
<u>Skin contact</u>	: Non-irritant to skin. Sensitizing effect by skin contact is possible by prolonged exposure.
<u>Ingestion</u>	: No known significant effects or critical hazards.

<u>Potential chronic health effects</u>	: No known significant effects or critical hazards.
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<u>Other information</u>	: No additional information.
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SECTION 12: Ecological information

<u>Toxicity</u>	: Based on available data, the classification criteria are not met.
<u>Persistence and degradability</u>	: Based on available data, the classification criteria are not met.
<u>Bioaccumulative potential</u>	: Based on available data, the classification criteria are not met.
<u>Mobility in soil</u>	: Not determined.
<u>Results of PBT and vPvB assessment</u>	
<u>PBT</u>	: Not applicable.
<u>vPvB</u>	: Not applicable.
<u>Other adverse effects</u>	: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Waste treatment methods

Product

<u>Methods of disposal</u>	: Use a shovel to transfer the material to a convenient waste disposal container.
<u>Hazardous waste</u>	: Not applicable.

Packaging

<u>Methods of disposal</u>	: Use a shovel to transfer the material to a convenient waste disposal container.
<u>Special precautions</u>	: None.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<u>UN number</u>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<u>UN proper shipping name</u>	-	-	-	-
<u>Transport hazard class (es)</u>	Not controlled under European ADR.	Not controlled under ADN (Europe).	Not controlled under IMDG.	Not controlled under IATA.
<u>Packing group</u>	-	-	-	-

Quadrant Universal LC

SECTION 14: Transport information

Environmental hazards	-	-	-	-
Additional information	-	-	-	-

Special precautions for user : No special measures are required.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

[Substances of very high concern](#)

None of the components are listed.

[National regulations](#)

Not applicable.

Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 vPvB = Very Persistent and Very Bioaccumulative

[Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

Classification	Justification
Not classified.	

[Europe](#)

Full text of abbreviated H statements

: H315 - Causes skin irritation.
 H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H412 - Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

: H315 - SKIN CORROSION/IRRITATION Category 2.
 H317 - Sensitisation skin Category 1.
 H319 - Eye irritation Category 2A.
 H412 - Hazardous to aquatic environment Chronic effects Category 3.

Full text of abbreviated R phrases

: R36/38- Irritating to eyes and skin.
 R37- Irritating to respiratory system.
 R43- May cause sensitisation by skin contact.
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD]

: Xi - Irritant.

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[Notice to reader](#)

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.