

SAFETY DATA SHEET

Quadrant Uni-SE-Bond

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

Product name : Quadrant Uni-SE-Bond
Other means of identification : None.
Product type : Liquid.

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

Identified uses : Dental bonding material

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

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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 : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

H225 - Flammable liquid Category 2.
 H317 - Skin irritation Category 1.
 H319 - Eye irritation Category 2A.
 H336 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) Category 3.

Classification according to Directive 67/548/EEC [DSD]**Europe**

F; R11
 Xi; R36
 R43
 R67

Classification according to Directive 1999/45/EC [DPD]**Europe**

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

F; R11
 Xi; R36
 R43
 R67

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H225 - Highly flammable liquid and vapour.
 H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H336 - May cause drowsiness or dizziness.

Precautionary statements

SECTION 2: Hazards identification

Prevention : P280 - Wear protective gloves.

Europe



Risk phrases : R11- Highly flammable.
R36- Irritating to eyes.
R43- May cause sensitisation by skin contact.
R67- Vapours may cause drowsiness and dizziness.

Safety phrases : S16- Keep away from sources of ignition - No smoking.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28- After contact with skin, wash immediately with plenty of soap and water.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

Supplemental label elements : Comply with the safety instructions.

Other hazards

Other hazards which do not result in classification : None known.

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 : Mixture

Product/ingredient name	Identifiers	%	<u>Classification</u>		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Europe Acetone	CAS: 67-64-1 EC: 200-662-2	25-50	F; R11 Xi; R36 R66; R67	H225; H319 ; H336; EUH066	[1]
4-methacryloxyethyl trimellitic anhydride	CAS: 70293-55-9 EC: 274-547-0	10-25	Xn; R22 Xi; R36/38 R43 See Section 16 for the full text of the R-phrases declared above.	H302; H315; H317; H319 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.

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.

Inhalation : Get medical attention if symptoms appear.

Skin contact : Wash contaminated skin with soap and water. Flush contaminated skin with plenty of water.

Ingestion : Rinse out mouth and then drink plenty of water.

Protection of first-aiders : Not applicable.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Irritating to eyes.

Inhalation : Contains : acetone.

Skin contact : Irritating to skin.

Ingestion : Harmful if swallowed.

SECTION 4: First aid measures

Indication of any immediate medical attention and special treatment needed

Notes to physician : No specific treatment.

Specific treatments : Not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Air/vapour mixtures may be explosive.

Hazardous thermal decomposition products : Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Special protective actions for fire-fighters : Avoid breathing dusts, vapours or fumes from burning materials.

Special protective equipment for fire-fighters : Vapour respirator.

Additional information : No additional remark.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Do not breathe vapour or mist.

For emergency responders : Do not breathe vapour or mist.

Environmental precautions : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Methods and materials for containment and cleaning up

Small spill : Absorb with liquid-binding material (sand, diatomite, universal binders etc.) or use a spill kit.

Large spill : Absorb with liquid-binding material (sand, diatomite, universal binders etc.) or use a spill kit.

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 : Store in a dry place.

Advice on general occupational hygiene : Store in a dry place.

Conditions for safe storage, including any incompatibilities : Keep container tightly closed in a cool, well-ventilated place.

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

Product/ingredient name	Exposure limit values
Europe Acetone	EU OEL (Europe). TWA: 1210 mg/m ³ 8 hour(s).

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

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SECTION 8: Exposure controls/personal protection

Appropriate engineering controls	: Provide adequate ventilation.
<u>Individual protection measures</u>	
Hygiene measures	: Wash thoroughly after handling.
Eye/face protection	: Safety glasses.
<u>Skin protection</u>	
Hand protection	: polyethylene (PE) or PVC gloves
Body protection	: Lab coat.
Other skin protection	: Wash contaminated skin with soap and water.
Respiratory protection	: No special protection is required.
Environmental exposure controls	: Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Yellowish.
Odour	: Characteristic.
pH	: No results available.
Melting point/freezing point	: No results available.
Initial boiling point and boiling range	: 55 °Celsius.
Flash point	: -19 °Celsius.
Relative density	: 1 g/cm³
Solubility in water	: Partially soluble in cold water.
Auto-ignition temperature	: 465 °Celsius.
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	: Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	: No specific hazard.
Conditions to avoid	: Protect from sunlight and do not expose to temperatures exceeding 25 °C.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Information on toxicological effects

<u>Acute toxicity</u>	: No results available.
<u>Irritation/Corrosion</u>	: Sensitizing effect by skin contact is possible by prolonged exposure.
<u>Sensitisation</u>	: No results available.
<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.
<u>Potential acute health effects</u>	
Eye contact	: Irritating to eyes.

SECTION 11: Toxicological information

Inhalation	: Contains : acetone.
Skin contact	: Irritating to skin.
Ingestion	: Harmful if swallowed.
Potential chronic health effects	: No known significant effects or critical hazards.
Other information	: No additional information.

SECTION 12: Ecological information

Toxicity	: No results available.
Persistence and degradability	: No results available.
Bioaccumulative potential	: No results available.
Mobility in soil	: No results available.
Results of PBT and vPvB assessment	
PBT	: Not applicable.
vPvB	: Not applicable.
Other adverse effects	: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Waste treatment methods




Product

Methods of disposal	: Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal	: Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Special precautions	: None.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
UN number	1090	1090	1090	1090
UN proper shipping name	acetone, solution	acetone, solution	acetone, solution	acetone, solution
Transport hazard class (es)	3 	3	3 	3 
Packing group	II	II	II	II
Environmental hazards	-	-	-	-
Additional information	<u>Hazard identification number</u> 33	-	-	-

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](#)

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
H225 - Flammable liquid Category 2. H317 - Skin irritation Category 1. H319 - Eye irritation Category 2A. H336 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) Category 3.	

Europe

Full text of abbreviated H statements

: H225 - Highly flammable liquid and vapour.
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
EUH066 - Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

: H225 - FLAMMABLE LIQUIDS Category 2.
H302 - ACUTE TOXICITY: ORAL Category 4.
H315 - SKIN CORROSION/IRRITATION Category 2.
H317 - Sensitisation: skin Category 1.
H319 - SERIOUS EYE DAMAGE/ EYE IRRITATION Category 2A.
H336 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) Category 3.

Full text of abbreviated R phrases

: R11- Highly flammable.
R22- Harmful if swallowed.
R36- Irritating to eyes.
R36/38- Irritating to eyes and skin.
R43- May cause sensitisation by skin contact.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

Full text of classifications [DSD/DPD]

: F - Highly flammable
Xn - Harmful
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.