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## Safety Data Sheet in accordance with HSNO

Printing date 11.04.2023

Version number 5

Revision: 11.04.2023

1 Identification of the substance or mixture and of the supplier

- · Product identifier
- · Trade name: G-BOND

• *Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.* 

· Application of the substance / the mixture Auxillary for dental technology

• **Details of the supplier of the safety data sheet** Henry Schein Dental

243-249 Bush Road, Rosedale Auckland 0632, NEW ZEALAND

Free Phone: 0800 808 855

Further information obtainable from: Regulatory affairs
 Emergency telephone number: 0800 764 766 (National Poisons Centre)

#### 2 Hazards identification

#### · Classification of the substance or mixture

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Repr. 2	H361 Suspected of damaging fertility or the unborn child.
STOT SE 3	H336 May cause drowsiness or dizziness.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

#### · Label elements

• *GHS label elements* The product is classified and labelled according to the Globally Harmonised System (GHS). • *Exemptions* 

The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5). Hazard pictograms



· Signal word Danger

• *Hazard-determining components of labelling:* 2,2'-ethylenedioxydiethyl dimethacrylate diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Urethane Dimethacrylate (UDMA)

• Hazard statements Highly flammable liquid and vapour.

Causes serious eye irritation.

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May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

#### · Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.

• **vPvB:** Not applicable.

## 3 Composition/Information on ingredients

#### · Chemical characterisation: Mixtures

· Description:

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

· Dangerous components:		
CAS: 67-64-1	acetone	25-<50%
EINECS: 200-662-2	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	5-<10%
EINECS: 203-652-6	Skin Sens. 1, H317	
CAS: 72869-86-4	Urethane Dimethacrylate (UDMA)	5-<10%
EINECS: 276-957-5	Aquatic Chronic 2, H411; Skin Sens. 1, H317	
CAS: 85590-00-7	methacryloyloxydecyl dihydrogen phosphate	2.5-<5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	1-<2.5%
EINECS: 278-355-8	Repr. 2, H361	
CAS: 128-37-0	Butylated hydroxytoluene	0.5-<1%
EINECS: 204-881-4	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
· Additional informat	ion: For the wording of the listed hazard phrases refer to section 16.	

#### 4 First aid measures

#### • Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

If symptoms persist consult doctor.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. (Contd. on page 3)

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Take affected persons into fresh air and keep quiet.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

If skin irritation continues, consult a doctor.

## • After eye contact:

Protect unharmed eye.

Rinse opened eye for several minutes under running water. Then consult a doctor.

- *After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.*
- · Information for doctor:

• Most important symptoms and effects, both acute and delayed Allergic reactions

• Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire fighting measures

· Extinguishing media

- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### 6 Accidental release measures

Personal pre	cautions, protective equipment and emergency procedures
	ons from danger area.
Keep away fi	rom ignition sources.
Avoid contac	t with the eyes and skin.
Wear protect	ive clothing.
Environmen	tal precautions:
Do not allow	product to reach sewage system or any water course.
Do not allow	to penetrate the ground/soil.
Methods and	l material for containment and cleaning up:
Ensure adeq	uate ventilation.
Absorb liquid	d components with liquid-binding material.
Dispose of th	e material collected according to regulations.
Reference to	other sections
	for information on safe handling.
	for information on personal protection equipment.
	3 for disposal information.

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## 7 Handling and storage

#### · Handling:

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with the eyes and skin.
Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Do not spray onto a naked flame or any incandescent material.

# • Conditions for safe storage, including any incompatibilities

- Storage:
- **Requirements to be met by storerooms and receptacles:** Store in a cool location. Store only in unopened original receptacles.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- Store in a cool place.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

|--|

· Ingredients with limit values that require monitoring at the workplace:		
67-64-1 acetone		
WES (New Zealand)	Short-term value: 2375 mg/m <sup>3</sup> , 1000 ppm	
	Long-term value: 1185 mg/m <sup>3</sup> , 500 ppm bio	
IOELV (European Union)	IOELV (European Union) Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm	
·DNELs		
128-37-0 Butylated hydroxytoluene		
Dermal DNEL dermal	0.5 mg/kg bw/day (man)	
Inhalative DNEL inhalation 3.5 mg/m3 (man)		
• Additional information: The lists valid during the making were used as basis.		
· Exposure controls		
· Personal protective equip		
· General protective and hygienic measures:		
The usual precautionary measures are to be adhered to when handling chemicals.		
Avoid contact with the eves and skin.		

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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• *Respiratory protection: Suitable respiratory protective device recommended.* • *Protection of hands:* 



Protective gloves

## · 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 can not be calculated in advance and has therefore to be checked prior to the application.

#### • Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

Information on basic physical and c General Information	hemical properties	
Appearance:	T · · 1	
Form: Colour:	Liquid Light wellow	
Odour:	Light yellow Ester-like	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/freezing point:	-94.6 °C	
Initial boiling point and boiling ra	nge: 56.2-56.5 °C	
Flash point:	-16 °C	
Flammability (solid, gas):	Highly flammable.	
Ignition temperature:	Undetermined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	2.6 Vol %	
Upper:	13 Vol %	
Vapour pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	

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· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Fully miscible.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	39.0 %	
Water:	20.0 %	
VOC (EC)	487.5 g/l	
· Other information	No further relevant information available.	

## 10 Stability and reactivity

• *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.

• Conditions to avoid No further relevant information available.

- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

#### · Information on toxicological effects

· Acute toxicity

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

67-64-1 acetone

Oral LD50 5,800 mg/kg (rat (f+m))

Dermal LD50 20,000 mg/kg (rabbit)

#### 72869-86-4 Urethane Dimethacrylate (UDMA)

*Oral* | *LD50* | >5,000 mg/kg (rat female) (OECD 401)

128-37-0 Butylated hydroxytoluene

*Oral LD50* >6,000 mg/kg (rat (f+m)) (OECD 401)

· Primary irritant effect:

• Skin corrosion/irritation No irritant effect.

• Serious eye damage/irritation Irritating effect.

• Respiratory or skin sensitisation Sensitisation possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

• *Repeated dose toxicity No further relevant information available.* 

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• CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Repr. 2

#### 12 Ecological information

#### · Toxicity

· Aquatic toxicity:

72869-86-4 Urethane Dimethacrylate (UDMA)

EC50/48h (static) >1.2 mg/l (daphnia magna) (OECD 202)

128-37-0 Butylated hydroxytoluene

EC50/48h (static) 0.48 mg/l (daphnia magna) (OECD 202)

· 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.

· Ecotoxical effects:

· Remark: Harmful to fish

• Additional ecological information:

· General notes:

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

· 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• Uncleaned packaging:

• *Recommendation:* Disposal must be made according to official regulations.

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number		
NZS, IMDG, IATA	UN1090	
UN proper shipping name		
NZS	1090 ACETONE	
IMDG, IATA	ACETONE	

Printing date 11.04.2023 Version number 5 Revision: 11.04.2023 Trade name: G-BOND (Contd. of page 7) • Transport hazard class(es) · NZS · Class 3 (F1) Flammable liquids. · Label 3 · IMDG, IATA · Class 3 Flammable liquids. · Label 3 · Packing group · NZS, IMDG, IATA Π • Environmental hazards: · Marine pollutant: No Warning: Flammable liquids. · Special precautions for user · Hazard identification number (Kemler code): 33 · EMS Number: F-E, S-D· Stowage Category Ε · Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. • Transport/Additional information: · NZS · Limited quantities (LQ) lL• Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category 2 D/E• Tunnel restriction code ·IMDG · Limited quantities (LQ) lL· Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · UN "Model Regulation": UN 1090 ACETONE, 3, II NZ

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## 15 Regulatory information

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

·New Zealand Inventory of Chemicals		
67-64-1	acetone	
7732-18-5	Water	
70293-55-9	2-[(2-methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro-1,3-dioxoisobenzofuran-5-carboxylate	
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	
72869-86-4	Urethane Dimethacrylate (UDMA)	
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	
128-37-0	Butylated hydroxytoluene	
1344-28-1	aluminium oxide	
10287-53-3	ethyl 4-dimethylaminobenzoate	
10373-78-1	Camphorquinone	
· HSNO App	· HSNO Approval numbers	

67-64-1 acetone

· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



· Signal word Danger

## · Hazard-determining components of labelling:

2,2'-ethylenedioxydiethyl dimethacrylate diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Urethane Dimethacrylate (UDMA)

· Hazard statements

Highly flammable liquid and vapour. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. (Contd. on page 10)

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· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

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· Relevant phrases
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H225 Highly flammable liquid and vapour. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

· Department issuing SDS: Regulatory affairs

· Contact: msds@gc.dental

• 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) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2
- Skin Irrit. 2: Skin corrosion/irritation Category 2

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2* 

- Skin Sens. 1: Skin sensitisation Category 1
- *Repr. 2: Reproductive toxicity Category 2*

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- Aquatic Acute 1: Hazardous to the aquatic environment acute aquatic hazard Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment long-term aquatic hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

Sources

• ECHA (http://echa.europa.eu/)

• EnviChem (www.echemportal.org)

• \* Data compared to the previous version altered.

This version replaces all previous versions.

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referred to herein. All such risks are assumed by the purchaser/user. The information contained herein is also subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.

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