

# SAFETY DATA SHEET (GHS)

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# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE/PRODUCT AND MANUFACTURER/IMPORTER

**ExciTE F DSC** 

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- 1.1 Product identifier:-Product name: Product number:
   1.2 Other means of identification:-
- 1.2 Other means of identification:-Not applicable.
- 1.3
   Recommended use of the chemical and restrictions on use: 

   Not applicable.
   Identified uses:

   Identified uses:
   Dual-curing dental adhesive with fluoride release
- 1.4 Details of the manufacturer and importer:-Manufacturer:

Importer:

1.5 Emergency phone number:

# 2. HAZARD(S) IDENTIFICATION

#### 2.1 GHS Classification:-

Flam. Liq. 3 H226 Flammable liquid and vapour. Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 GHS Label elements, including precautionary statements:-Hazard Pictogram:



Phosphonic acid acrylate

2-hydroxyethyl methacrylate H226 Flammable liquid and vapour.

P261 Avoid breathing vapours.

protection/face protection.

water/shower.

Danger

**Bis-GMA** 



H314 Causes severe skin burns and eye damage.

flames and other ignition sources. No smoking.

P210 Keep away from heat, hot surfaces, sparks, open

P280 Wear protective gloves/protective clothing/eye

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

H317 May cause an allergic skin reaction.



Signal word: Hazard-determining components of labelling:

Hazard statements:

**Precautionary statements:** 



P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

## Additional information:-

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.

#### 2.3 Other hazards:-

Results of PBT and vPvB assessment:	PBT:	Not applicable.
	vPvB:	Not applicable.

#### 3 **COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient name	CAS No.	Classification	Concentration
Bis-GMA	1565-94-2	Skin Irrit. 2 - H315	25-50%
		Eye Irrit. 2 - H319	
		Skin Sens.1 - H317	
Ethanol	64-17-5	Flam. Liq. 2 - H225	10-<25%
2-hydroxyethyl methacrylate	868-77-9	Skin Irrit. 2 - H315	10-<25%
		Eye Irrit. 2 - H319	
		Skin Sens.1 - H317	
Phosphonic acid acrylate	223681-84-3	Skin Corr. 1B - H314	10-<25%
		Skin Sens. 1 - H317	
Potassium fluoride	7789-23-3	Acute Tox. 3 - H301	0.3-<1%
		Acute Tox. 3 - H311	
		Acute Tox. 3 - H331	
Non-hazardous ingredients	N/A	N/A	to 100%

For the full text of the H-Statements mentioned in this Section, refer to Section 16.

#### **FIRST AID MEASURES** 4.

Description of necessary first aid measures:-4.1 Conoral advi

General advice: If inhaled:	<ul> <li>Remove contaminated clotning and snoes immediately and launder thoroughly before reusing.</li> <li>First aid facilities include first aid rooms and medical centres.</li> <li>If a risk assessment determines that a first aid room or medical centre is not needed, a rest area within the workplace may be suitable to assist an injured or ill person.</li> <li>Ensure supply of fresh air.</li> <li>Remove affected person from the immediate area.</li> <li>Keep patient warm. Consult doctor if symptoms persist.</li> <li>In case of unconsciousness place patient stably in side position for transportation.</li> </ul>
In case of skin contact:	Wash off immediately with water. If skin irritation continues, consult a doctor.
In case of eye contact:	Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes holding the eyelids apart and seek medical advice.



If swallowed:	Do not induce vomiting. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Never give anything by mouth to an unconscious person. Call a doctor immediately.	
Symptoms caused by exposure:- Medical attention and special treatment:-	Please refer to section 2.2 and section 11. No further relevant information available.	
Special personal protective equipment:	Wear self-contained respiratory protective device.	
Precautions: Hazchem code:	Cool endangered receptacles with water spray. 3 Flammable liquids.	
<ul> <li>ACCIDENTAL RELEASE MEASURES</li> <li>Personal precautions, protective equipment and emergency procedures:-</li> <li>Wear protective equipment. Keep unprotected persons away.</li> <li>Use of suitable equipment (incl PPE) to prevent contamination of skin, eyes, clothing, removal of ignition sources, ventilation, emergency procedures (eg. evacuate, consult expert).</li> <li>Environmental precautions:-</li> <li>Do not allow to enter sewers/surface or ground water.</li> <li>Methods and materials for containment and cleaning up:-</li> <li>Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).</li> <li>Use a neutralising agent.</li> <li>Dispose contaminated material as waste according to item 13.</li> <li>Ensure adequate ventilation.</li> </ul>		
<ul> <li>HANDLING AND STORAGE</li> <li>Precautions for safe handling:-</li> <li>No special measures necessary if stored and handled as prescribed.</li> <li>Only adequately trained personnel should handle this product.</li> <li>For use in dentistry only.</li> <li>Ensure good ventilation/exhaustion at the workplace.</li> <li>Keep ignition sources away – do not smoke.</li> <li>Protect against electrostatic charges.</li> <li>Wash hands before breaks and after work.</li> <li>Do not eat, drink or smoke during work time.</li> <li>Remove soiled or soaked clothing immediately.</li> <li>Keep away from foodstuffs and beverages.</li> <li>Conditions for safe storage, including any incompatibilities:-</li> <li>Keep container tightly sealed.</li> <li>Store in cool, dry conditions in well-sealed receptacles.</li> <li>Store receptacle in a well ventilated area.</li> <li>Recommended storage temperature for storage rooms and vessels is 20 - 30°C.</li> </ul>		
	Symptoms caused by exposure:- Medical attention and special treatment:- FIRE FIGHTING MEASURES Suitable extinguishing media: Specific hazards arising from the substance/mixture/product: Special protective equipment and precaution Special personal protective equipment: Precautions: Hazchem code: ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment Wear protective equipment. Keep unprotected p Use of suitable equipment (incl PPE) to prevent sources, ventilation, emergency procedures (eg Environmental precautions:- Do not allow to enter sewers/surface or ground Methods and materials for containment and Absorb with liquid-binding material (sand, diator Use a neutralising agent. Dispose contaminated material as waste accord Ensure adequate ventilation. HANDLING AND STORAGE Precautions for safe handling:- No special measures necessary if stored and ha Only adequately trained personnel should handl For use in dentistry only. Ensure good ventilation/exhaustion at the workp Keep ignition sources away – do not smoke. Protect against electrostatic charges. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Keep away from foodstuffs and beverages. Conditions for safe storage, including any in Keep only in the original container. Containers which are opened must be carefully Keep container tightly sealed. Store in cool, dry conditions in well-sealed reception Store receptacle in a well ventilated area.	



### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Exposure control measures:-

#### Occupational exposure limits:

Component	CAS No.	Value	Parameters	Basis
Ethanol	64-17-5	Long-term value: 1920 mg/m³,	1000 ppm	The lists valid during the making were used as basis.

# Ingredients with biological limit values:

Exposure should be kept to as low as practicable and below the AOES.

### 8.2 Biological monitoring:-

Assess in accordance with exposure limits – please refer to section 8.1.

Exposure controls / Personal protective equipment / General protective and hygienic measures:-Usual hygienic measures for dental practice.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

#### 8.3 Control banding:-

Use good industrial hygiene practice and general ventilation.

## 8.4 Engineering controls:-

In case of intensive contact, wear protective gloves (EN 374).

Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties).

Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.

Protective gloves shall be replaced immediately when physically damaged or worn.

#### 8.5 Individual protection measures include PPE:-Eye/face protection:

### Safety glasses

Use tightly fitting safety glasses as per Australian Standard AS 1336 and AS/NZS 1337.



Skin protection:



#### **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 glovesButyl rubber, BR.Fluorocarbon rubber (Viton).PVA gloves.The selection of the suitable gloves does not only dependon the material, but also on further marks of quality andvaries from manufacturer to manufacturer. As the product isa preparation of several substances, the resistance of theglove material cannot be calculated in advance and hastherefore to be checked prior to the application.Penetration time of glove materialThe exact break through time has to be found out by the
Respiratory protection:	<ul> <li>manufacturer of the protective gloves and has to be observed.</li> <li>Provide for good ventilation of working area (local exhaust ventilation, if necessary).</li> <li>In case of brief exposure or low pollution use respiratory filter device.</li> <li>In case of intensive or longer exposure use self-contained respiratory protective device.</li> </ul>

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# 9. PHYSICAL/CHEMICAL PROPERTIES

- 9.1 Information on physical/chemical properties:-
- a) Appearance/Form: Fluid. b) Colour: Colourless. Odour: Characteristic. c) d) **Odour threshold:** Not determined. e) pH value (10 g/l) at 20°C: 2.5 Melting point/melting range: Undetermined. f) Boiling point/boiling range: Undetermined. g) h) Flash point: 24°C. Ignition temperature: 425°C. i) Self-igniting: Product is not self-igniting. j) Product is not explosive. However, formation of explosive Danger of explosion: k) air/vapour mixtures are possible. I) Upper/lower flammability or explosive Lower Not determined. limits: Upper Not determined. Vapour pressure at 20°C: 59 hPa. m) Density at 20°C: 1.066g/cm<sup>3</sup>. n) Relative density: Not determined. o) Vapour density: Not determined. p) q) Evaporation rate: Not determined. Solubility: Partly miscible. r) Partition coefficient: n- octanol/water: Not determined. s) Not determined. t) Viscosity: Dynamic Kinematic | Not determined.

# 10. STABILITY AND REACTIVITY

- 10.1 Reactivity:-
- No further relevant information available.
- 10.2 Chemical stability:-Stable under normal handling and storage conditions. Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.



10.3 10.4 10.5	Possibility of hazardous reactions:- No dangerous reactions known. Conditions to avoid:- Protect from exposure to light. Keep away from heat and direct sunlight. Incompatible materials:-	
10.5	No further relevant information available.	
10.6	Hazardous decomposition products:- None under normal conditions of storage and u	ise.
11. 11.1	TOXICOLOGICAL INFORMATION Information on toxicological effects:- Acute toxicity / Values relevant for classification	ation:
	No further relevant information available.	
	Skin corrosion/irritation:	Irritant to skin and mucous membranes.
	Serious eye damage/eye irritation:	Irritating effect.
	Respiratory or skin sensitization:	Sensitisation possible through skin contact.
	Germ cell mutagenicity:	No further relevant information available.
	Carcinogenicity:	No further relevant information available.
	Reproductive toxicity:	No further relevant information available.
	Specific target organ toxicity - single exposure:	No further relevant information available.
	Specific target organ toxicity - repeated	No further relevant information available.
	exposure: Aspiration hazard:	No further relevant information available.
	Additional information:	No further relevant information available.
11.2	Information on possible routes of exposure	1
	Short Term (Acute) Exposure:	No further relevant information available.
	Swallowed:	No further relevant information available.
	Eyes:	Irritating effect.
	Skin:	Irritant to skin and mucous membranes.
	Inhaled:	No further relevant information available.
	Long Term (Chronic) Exposure:	No further relevant information available.
	Swallowed:	No further relevant information available.
	Eyes:	Irritating effect.
	Skin:	Irritant to skin and mucous membranes.
	Inhaled:	May cause allergic skin reaction.
11.3	Early onset symptoms related to exposure:-	No further relevant information available.
11.4	Delayed health effects from exposure:-	No further relevant information available.
11.5	Exposure levels and health effects:-	No further relevant information available.
11.6	Interactive effects:-	No further relevant information available.
11.7	Other:-	No further relevant information available.
12.	<b>ECOLOGICAL INFORMATION</b>	
12.1	Ecotoxicity:-	
	No further relevant information available.	
12.2	Persistence/degradability:-	
	No further relevant information available.	
12.3	Bioaccumulative potential:-	
	No further relevant information available.	
12.4	Mobility in soil:-	
	No further relevant information available.	
12.5	Other adverse effects:- No further relevant information available.	



#### Additional ecological information / General notes:

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

## 12.6 Other adverse effects:-

No further relevant information available.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Disposal methods:-

Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal.

Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

Disposal must be made according to official regulations.

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

## 14. TRANSPORT INFORMATION

UN number ADR / IMDG / IATA:-	UN1170		
UN proper shipping name or technical name:-			
ADR:	1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
IMDG, IATA:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
Transport hazard class(es):			
	3 (F1) Flammable liquids		
Label:	3		
Packaging group:	111		
Environmental hazards:	Not applicable.		
Special precautions for user:	Warning: Flammable liquids.		
Danger code:	30		
EMS Number:	F-E, S-E.		
Transport in bulk according to Annex II of	Not applicable.		
MARPOL73/78 and the IBC Code:			
Additional information – ADR:-			
Limited quantities:	5L		
Excepted quantities:	Code: E1		
	Maximum net quantity per inner packaging: 30 ml		
	Maximum net quantity per outer packaging: 1000 ml		
Transport category:	3		
Tunnel restriction code:	D/E		
Additional information – IMDG:-			
Limited quantities:	5L		
Excepted quantities:	Code: E1		
· ·	Maximum net quantity per inner packaging: 30 ml		
	Maximum net quantity per outer packaging: 1000 ml		
Hazchem or emergency action code:	3 (F1) Flammable liquids.		

# 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture/product:-Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) approved criteria for the classifying hazardous substances [NOHSC: 1008] 3rd edition.

Standard for the Uniform Scheduling of Medicines and Poisons.

Carcinogen classification under WHS Regulation 2011, Schedule 10.

HSNO Approval: HSR001144, HSR003005, HSR006970, May be used as a single component chemical under an appropriate group standard

EPA NZ Classes of hazardous properties: Class 3,8

# 16. OTHER INFORMATION

Key to abbreviations/acronyms used in SDS:-

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

# Key literature references/data sources used to compile SDS:-

Standard EN420:2003 General requirements for protective gloves: disposable gloves, e.g. nitrile rubber, material thickness 0.1 mm (Australian Standard 2161).

Long-term exposure (Level 6: < 480 min): protective gloves, e.g. nitrile rubber, material thickness 0.7 mm (Australian Standard 2161).

Personal eye protection - Eye and face protectors for occupational applications: safety glasses (Australian Standard AS 1336 and AS/NZS 1337.1:2010).

#### Copyright statement:-

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.

#### Abbreviations and acronyms:-

ADR: Accord européen sur le transport 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. GHS: Globally Harmonised System of Classification and Labelling of Chemicals. 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. Flam. Lig. 2: Flammable liquids, Hazard Category 2. Flam. Liq. 3: Flammable liquids, Hazard Category 3. Acute Tox. 4: Acute toxicity, Hazard Category 4. Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2. Eve Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2. Repr. 2: Reproductive toxicity, Hazard Category 2. STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3. STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2. Asp. Tox. 1: Aspiration hazard, Hazard Category 1.





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