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SR Link

SAFETY DATA SHEET (GHS)

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

1.1	Product identifier:-	
	Product name:	SR Link
	Product number:	545872
1.2	Other means of identification:- Not applicable.	
1.3	Recommended use of the chemical and rest Not applicable.	rictions on use:-
	Identified uses:	Bonding agent.
1.4	Details of the manufacturer and importer:-	
	Manufacturer:	Ivoclar Vivadent AG Bendererstrasse 2 FL-9494 Schaan Principality of Liechtenstein Tel: + 423 235 35 35 Fax: + 423 235 33 60
	Importer:	Ivoclar Vivadent Pty Ltd 1- 5 Overseas Drive Noble Park North VIC 3174 Tel: + 61 3 9795 9599 Fax: + 61 3 9795 9645 Email: info@ivoclarvivadent.com
1.5	Emergency phone number:	13 11 26 Poisons Hotline (24 hours / 7 days)

2. HAZARD(S) IDENTIFICATION

2.1 GHS Classification:-

Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Acute Tox. 4 H332 Harmful if inhaled.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

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





Signal word: Danger 2-methylpropan-2-ol Hazard-determining components of Methacrylated phosphoric acid ester labelling: 4-methylpentan-2-one Urethane dimethacrylate H225 Highly flammable liquid and vapour. Hazard statements: H332 Harmful if inhaled. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. P210 Keep away from heat, hot surfaces, sparks, open **Precautionary statements:** flames and other ignition sources. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3	Other hazards:-
	Results of PBT and vP

VB assessment:	PBT:	Not applicable.
	vPvB:	Not applicable.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	CAS No.	Classification	Concentration
2-methylpropan-2-ol	75-65-0	Flam. Liq. 2 - H225	50-100%
		Acute Tox. 4 - H332	
		Eye Irrit. 2 - H319	
		STOT SE 3 - H335	
4-methylpentan-2-one	108-10-1	Flam. Lig. 2 - H225	10-<25%
51		Acute Tox. 4 - H332	
		Eye Irrit. 2 - H319	
		STOT SE 3 - H335	
Methacrylated phosphoric acid	85590-00-7	Skin Irrit. 2 - H315	3-<10%
ester		Eye Irrit. 2 - H319	
		Skin Sens. 1 - H317	
Urethane dimethacrylate	72869-86-4	Eye Irrit. 2 - H319	3-<10%
		Skin Sens. 1 - H317	
		Aquatic Chronic 3 - H412	
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.

4. FIRST AID MEASURES

4.1	Description of necessary first aid measures:-
	General advice

General advice:	Remove contaminated clothing and shoes immediately and
	launder thoroughly before reusing.
	First aid facilities include first aid rooms and medical
	centres.
	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.
If inhaled:	Ensure supply of fresh air.
	Remove affected person from the immediate area.
	Keep patient warm. Consult doctor if symptoms persist.
	In case of unconsciousness place patient stably in side
	position for transportation.
In case of skin contact:	Wash off immediately with water.
in case of skill contact.	If skin irritation continues, consult a doctor.
In case of ove contacts	
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.

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4.2 4.3	Symptoms caused b Medical attention ar			Please refer to sect No further relevant		
5. 5.1	FIRE FIGHTING ME Suitable extinguishi Suitable extinguishi	ing equipmer	nt:-	Carbon dioxide, po Fight larger fires wi		/. cohol resistant foam.
5.2	Unsuitable extinguis Specific hazards ari substance/mixture/p	sing from the product:-	e	Water with full jet. No further relevant		
5.3	Special protective e Special personal pro Precautions: Hazchem code:			Near self-contained Cool endangered re 3 Flammable liquid	eceptacles with wat	
6. 6.1	ACCIDENTAL RELE Personal precaution Wear protective equip Use of suitable equip sources, ventilation, e	ns, protective oment. Keep u ment (incl PP	e equipment unprotected p E) to prevent	persons away. contamination of ski	n, eyes, clothing, re	emoval of ignition
6.2	Environmental prec	autions:-			expen).	
6.3	Do not allow to enter Methods and materi Absorb with liquid-bin Dispose contaminate Ensure adequate ven Do not flush with wate	als for contanding material ding material as the second se	inment and (sand, diator waste accord	cleaning up:- nite, acid binders, un ling to item 13.	niversal binders, sav	wdust).
7. 7.1						
7.2						
8. 8.1	EXPOSURE CONTR Exposure control m Occupational expos	easures:-	NAL PROTE	CTION		
	Component	CAS No.		Value	Parameters	Basis
	2-methylpropan-2- ol	75-65-0		value: 462 mg/m³ value: 308 mg/m³	150 ppm 100 ppm	The lists valid during the making were used as

basis.



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	-		1		_	
	Component	CAS No.		Value	Parameters	Basis
	4-methylpentan-2- one	108-10-1		value: 416 mg/m ³ value: 208 mg/m ³	100 ppm 50 ppm	The lists valid during the making were used as
						basis.
	Ingredients with bio	logical limit				
	4-methylpentan-2- one	108-10-1	Parameter:	ine me: post shift 4-methylpentan-2-		
8.2	Biological monitori) 	one			ļ
0.2	 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. 					nic measures:
8.3	Control banding:-					
	Use good industrial h		ce and genei	al ventilation.		
8.4	Engineering control					
8.5	 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 replacer of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. 					
0.5	5 Individual protection measures include PPE Eye/face protection:			Safety glasses Use tightly fitting saf AS 1336 and AS/NZ		Australian Standard
	Skin protection:			Protective gloves The glove material h the product/ the sub Due to missing tests material can be give chemical mixture. Selection of the glov penetration times, ra Material of gloves Butyl rubber, BR. Fluorocarbon rubber PVA gloves. The selection of the on the material, but varies from manufac a preparation of seve glove material canno	stance/ the prepara on recommendation on for the product/ the re material on const ates of diffusion and r (Viton). suitable gloves doe also on further man cturer to manufactur eral substances, th	ation. on to the glove ne preparation/ the ideration of the d the degradation. es not only depend ks of quality and rer. As the product is e resistance of the

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Respiratory protection: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.
Provide for good ventilation of working area (local exhaust
ventilation, if necessary).
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.
Recommended filter device for short term use:
Filter A1 / Filter A2 / Filter A3

9. PHYSICAL/CHEMICAL PROPERTIES

9.1 Information on physical/chemical properties:-

mormation on physica, one moar properties			
Appearance/Form:	Fluid		
Colour:	According to product specifications.		
Odour:	Camphor like.		
Odour threshold:	Not determined.		
pH value:	Not applicable.		
Melting point/melting range:	Undetermined.		
Boiling point/boiling range:	83°C.		
Flash point:	11°C.		
Ignition temperature:	460°C.		
Self-igniting:	Product is not self-igniting.		
Danger of explosion:	Product is not explosive. However, formation of explosive		
	air/vapour mixtures are possible.		
Upper/lower flammability or explosive	Lower 1.7 Vol%.		
limits:	Upper 9.0 Vol%.		
Vapour pressure at 20°C:	40 hPa		
Density:	Not determined.		
Relative density:	Not determined.		
Vapour density:	Not determined.		
Evaporation rate:	Not determined.		
Solubility in/miscibility with water:	Partly soluble.		
Partition coefficient: n- octanol/water:	Not determined.		
Viscosity:1	Dynamic Not determined.		
	Kinematic Not determined.		
	Colour: Odour: Odour threshold: pH value: Melting point/melting range: Boiling point/boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion: Upper/lower flammability or explosive limits: Vapour pressure at 20°C: Density: Relative density: Vapour density: Evaporation rate: Solubility in/miscibility with water: Partition coefficient: n- octanol/water:		

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 Possibility of hazardous reactions:-Reacts with strong oxidising agents. Reacts with reducing agents.

10.4 Conditions to avoid:-No further relevant information available. 10.5 Incompatible materials:-

No further relevant information available.

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10.6	Hazardous decomposition	•	ISE.		
11. 11.1	TOXICOLOGICAL INFOR Information on toxicolog Acute toxicity / Values re 2-methylpropan-2-ol 4-methylpentan-2-one	ical effects:-	ation: Oral Oral Dermal	LD50 LD50 LD50	3500 mg/kg (rat) 2080 mg/kg (rat) 16000 mg/kg (rabbit)
	Skin corrosion/irritation: Serious eye damage/eye Respiratory or skin sens Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ tox exposure: Specific target organ tox	irritation: itization: icity - single	Inhalation No irritant ei Irritating effe Sensitisation No further re No further re No further re	LC50/ 4 h ffect. ect. n possible thro elevant informa elevant informa elevant informa	ugh skin contact. ation available. ation available. ation available. ation available. ation available. ation available.
11.2	exposure: Aspiration hazard: Additional information: Information on possible Short Term (Acute) Expo Swallowed: Eyes: Skin: Inhaled: Long Term (Chronic) Ex Swallowed: Eyes: Skin:	routes of exposure osure:	No further re No further re No further re No further re Irritating effe Sensitisation No further re No further re Irritating effe Sensitisation	elevant informa elevant informa elevant informa ect. n possible thro elevant informa elevant informa elevant informa elevant informa	ation available. ation available. ation available ation available. ugh skin contact. ation available. ation available. ation available. ugh skin contact.
11.3	Inhaled: Early onset symptoms re	elated to			ation available. ation available.
11.4 11.5 11.6 11.7	exposure:- Delayed health effects fr Exposure levels and hea Interactive effects:- Other:-		No further re No further re	elevant informa elevant informa	ation available. ation available. ation available. ation available.
12. 12.1	ECOLOGICAL INFORMA Ecotoxicity:- No further relevant information				
12.2					
12.3					
12.4					
12.5	Other adverse effects:- No further relevant informa Additional ecological inf	ation available. formation / General		h ground wate	r, water course or sewage

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12.6 Other adverse effects:-

No further relevant information available.

DISPOSAL CONSIDERATIONS 13.

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:-	UN1993	
	UN proper shipping name or technical name:-		
	ADR:	1993 FLAMMABLE LIQUID, N.O.S. (BUTANOLS,	
		METHYL ISOBUTYL KETONE)	
	IMDG, IATA:	FLAMMABLE LIQUID, N.O.S. (BUTANOLS, METHYL	
		ISOBUTYL KETONE)	
	Transport hazard class(es):	,	
	3	3 (F1) Flammable liquids	
	Label:	3	
	Packaging group:		
	Environmental hazards:	Not applicable.	
	Special precautions for user:	Warning: Flammable liquids.	
	Danger code:	33	
	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:	1L	
	Transport category:	2	
	Tunnel restriction code:	D/E	
	Hazchem or emergency action code:	3 (F1) Flammable liquids.	

15. **REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance/mixture/product:-15.1 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. Notification status in accordance with section 3 and current national legislation.

16. **OTHER INFORMATION**

Key to abbreviations/acronyms used in SDS:-

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.



H319 Causes serious eye irritation. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

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).

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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. Liq. 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.

Eye 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.

* Data compared to the previous version altered

Disclaimer:-

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