HENRY SCHEIN®
DENTAL

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Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name:	Solare_X
Manufacturer:	GC Corporation
SDS Expiry:	20 July 2028
Supplier Details:	Henry Schein New Zealand 243-249 Bush Road, Rosedale, Auckland, 0632 PO Box 101 140, North Shore, Auckland 0745 Ph. 0800 808 855 www.henryschein.co.nz
Emergency Contacts:	Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours) Phone 111 for Fire, Ambulance or Police
HSNO Class/Category:	6 / 9
HSNO Group Standard:	Dental Products Subsidiary Hazard Group Standard 2020 HSR002558
Statements/Pictograms:	As per attached Safety Data Sheet (SDS)
Date Prepared:	This coversheet was prepared – September 2023

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

Safety Data Sheet
in accordance with HSNO

Printing date 20.07.2023 *Version number 4* *Revision: 20.07.2023*

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1 Identification of the substance or mixture and of the supplier

· **Product identifier**

· **Trade name: Solare_X**
· **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)

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2 Hazards identification

· **Classification of the substance or mixture**

Acute Tox. 4	H302 Harmful if swallowed.
Skin Sens. 1	H317 May cause an allergic skin reaction.
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**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**
Ytterbium trifluoride
Urethane Dimethacrylate (UDMA)
(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate
· **Hazard statements**
Harmful if swallowed.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.

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Wear protective gloves.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Rinse mouth.
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.*

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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: 72869-86-4 *EINECS: 276-957-5*	*Urethane Dimethacrylate (UDMA)* *Aquatic Chronic 2, H411; Skin Sens. 1, H317*	*10-<25%*
CAS: 13760-80-0 *EINECS: 237-354-2*	*Ytterbium trifluoride* *Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331*	*5-<10%*
CAS: 43048-08-4 *EINECS: 256-062-6*	*(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate* *Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335*	*5-<10%*
CAS: 1985-51-9 *EINECS: 217-856-8*	*2,2-dimethyl-1,3-propanediyl bismethacrylate* *Skin Irrit. 2, H315; Eye Irrit. 2, H319*	*1-<2.5%*
CAS: 9003-08-1	*1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde* *Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335*	*0.5-<1%*

· ***Additional information:*** *For the wording of the listed hazard phrases refer to section 16.*

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4 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.
Do not use mouth to mouth or mouth to nose resuscitation.
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:***
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· ***After swallowing:***
Do not induce vomiting; call for medical help immediately.
Rinse out mouth and then drink plenty of water.
· ***Information for doctor:***
· ***Most important symptoms and effects, both acute and delayed*** *Allergic reactions*

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

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5 Fire fighting measures

· ***Suitable extinguishing agents:*** *CO2, sand, extinguishing powder. Do not use water.*
· ***For safety reasons unsuitable extinguishing agents:*** *Water*
· ***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.
· ***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 precautions, protective equipment and emergency procedures***
Remove persons from danger area.
Avoid contact with the eyes and skin.
Wear protective clothing.
· ***Environmental precautions:***
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to penetrate the ground/soil.
In case of seepage into the ground inform responsible authorities.
· ***Methods and material for containment and cleaning up:***
Absorb liquid components with liquid-binding material.
Dispose of the material collected according to regulations.
· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 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:*** *Protect against electrostatic charges.*
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *Store only in unopened original receptacles.*
· ***Information about storage in one common storage facility:*** *Store away from foodstuffs.*
· ***Further information about storage conditions:*** *None.*
· ***Specific end use(s)*** *No further relevant information available.*

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8 Exposure controls/personal protection

· ***Additional information about design of technical facilities:*** *No further data; see section 7.*
· ***Ingredients with limit values that require monitoring at the workplace:***
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· ***Additional information:*** *The lists valid during the making were used as basis.*
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
The usual precautionary measures are to be adhered to when handling chemicals.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
· ***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

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9 Physical and chemical properties

· ***General Information***	
· ***Appearance:***	
· ***Form:***	*Pasty*
· ***Colour:***	*According to product specification*
· ***Odour:***	*Odourless*
· ***Odour threshold:***	*Not determined.*
· ***pH-value:***	*Not determined.*
· ***Change in condition***	
· ***Melting point/freezing point:***	*Undetermined.*
· ***Initial boiling point and boiling range:***	*Undetermined.*
· ***Flash point:***	*Not applicable.*
· ***Flammability (solid, gas):***	*Not applicable.*
· ***Auto-ignition temperature:***	*Undetermined.*
· ***Decomposition temperature:***	*Not determined.*
· ***Ignition temperature:***	*Product is not selfigniting.*

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· **Explosive properties:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Vapour pressure:**	Not determined.
· **Density:**	Not determined.
· **Relative density**	Not determined.
· **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:**	
· **VOC (EC)**	0.0 g/l
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **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.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity** Harmful if swallowed.

· **LD/LC50 values relevant for classification:**		
72869-86-4 Urethane Dimethacrylate (UDMA)		
Oral	LD50	>5,000 mg/kg (rat female) (OECD 401)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation** May cause an allergic skin reaction.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.
· **Additional toxicological information:**
· **Repeated dose toxicity** No further relevant information available.

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· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
No further relevant information available.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
72869-86-4 Urethane Dimethacrylate (UDMA)	
EC50/48h (static)	>1.2 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.
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
· **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.

14 Transport information

· **UN-Number**	
· **NZS, IMDG, IATA**	not regulated
· **UN proper shipping name**	
· **NZS, IMDG, IATA**	not regulated
· **Transport hazard class(es)**	
· **NZS, ADN, IMDG, IATA**	
· **Class**	not regulated
· **Packing group**	
· **NZS, IMDG, IATA**	not regulated
· **Environmental hazards:**	
· **Marine pollutant:**	No

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· ***Special precautions for user***	*Not applicable.*
· ***Transport in bulk according to Annex II of Marpol and the IBC Code***	*Not applicable.*
· ***UN "Model Regulation":***	*not regulated*

*
15 Regulatory information

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

· ***New Zealand Inventory of Chemicals***	
65997-17-3	*Glass, oxide, chemicals*
72869-86-4	*Urethane Dimethacrylate (UDMA)*
68476-25-5	*Feldspar-group minerals*
13760-80-0	*Ytterbium trifluoride*
68611-44-9	*Silane, dichlorodimethyl-, reaction products with silica*
43048-08-4	*(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate*
1985-51-9	*2,2-dimethyl-1,3-propanediyl bismethacrylate*
2530-85-0	*3-trimethoxysilylpropyl methacrylate*
7128-64-5	*2,5-Thiophendiylbis(5-tert-butyl-1,3-benzoxazol)*
9003-08-1	*1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde*
21245-01-2	*3-methylbutyl 4-(dimethylamino)benzoate*
78-67-1	*2,2'-dimethyl-2,2'-azodipropiononitrile*
128-37-0	*Butylated hydroxytoluene*
1309-37-1	*Iron(III)oxide*
1309-38-2	*Iron (II,III) oxide*
1879-09-0	*6-tert-butyl-2,4-xylenol*
2440-22-4	*2-(2H-benzotriazol-2-yl)-p-cresol*
3290-92-4	*Propylidynetrimethyl trimethacrylate*
10373-78-1	*Camphorquinone*
13463-67-7	*titanium dioxide*
20344-49-4	*Iron hydroxide oxide*
68909-20-6	*Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica*

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



GHS07

· ***Signal word*** *Warning*

· ***Hazard-determining components of labelling:***
Ytterbium trifluoride
Urethane Dimethacrylate (UDMA)

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(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate

· **Hazard statements**
Harmful if swallowed.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Rinse mouth.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

· **Relevant phrases**
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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)

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· **** Data compared to the previous version altered.***
This version replaces all previous versions.
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