



**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME	Structomer <sup>®</sup> Flexible Denture Base Resin
MANUFACTURER	Structo Pte. Ltd.
DIVISION	Materials
SALES & DISTRIBUTION ADDRESS	40 Jalan Pemimpin, #03-10A Tat Ann Building, Singapore 577185
MANUFACTURING ADDRESS	40 Jalan Pemimpin, #03-10A Tat Ann Building, Singapore 577185
COUNTRY SPECIFIC EMERGENCY PHONE (SINGAPORE)	995
MANUFACTURER'S PHONE NUMBER	+65 8089 3600(Singapore)
CHEMICAL FAMILY	Acrylate oligomers
PRODUCT USE	Photoactive resin based on acrylate oligomers for manufacturing of 3D-printed dental and orthodontic models.

SECTION 1 NOTES:

**SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENT	CAS NO.	% WT/WT	HAZARD STATEMENT	CLASSIFICATION
Epoxy methacrylate/ Acrylate/Diacrylate/Triacrylate monomers	Proprietary	≥ 96 %	H315 H317 H319 H302 H318 H373	Skin Irritation (Cat. 2) Skin Sens. (Cat. 1) Eye Irritation (Cat. 2A) Acute Toxic (Cat. 4) Eye Damage (Cat. 1) STOT Rep. Exp. (Cat. 2)
Phosphine oxides		≤ 3 %	H317 H361 H411	Skin Sens. (Cat. 1) Repr. (Cat.2) Aquatic Chronic (Cat. 2)
Pigments		< 1 %	H315 H317 H319	Skin Irritation (Cat. 2) Skin Sens. (Cat. 1) Eye Irritation (Cat. 2)

The specific chemical identity and/or exact percentage of composition for one or more ingredients has been withheld as a trade secret.

A PEL or TLV has not been established.

SECTION 2 NOTES:



Doc. No. :	STR-MTL-SFD-CERT-12
Revision :	01
CO # :	N/A
Date :	01-Feb-2026
Page :	2 of 10

**SECTION 3: HAZARDS IDENTIFICATION**

**Classification to Hazardous Products Regulations (HPR) (SOR / 2015 - 17)**

<b>Classification of the Product</b>	<b>Explanation</b>
Skin Sens. : 1	Skin sensitization
Eye Irritation : 1	Eye irritation
STOT RE (oral) : 2	Oral Toxicity
Acute Toxicity : 4	Acute Toxicity
Aquatic Chronic : 2	Hazardous to the aquatic environment

**Label Elements**

**Pictogram**



**Signal Word**

Warning

**Hazard statements:**

- H302 Harmful if swallowed
- H315 May cause skin irritation
- H317 May cause an allergic skin reaction
- H319 May cause serious eye irritation
- H361 Suspected of damaging fertility or the unborn child
- H411 Toxic to aquatic life with long lasting effects

**Precautionary statements (Prevention):**

- P202 Do not handle until all safety precautions have been read and understood
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P261 Avoid breathing dust/fumes/gas/mist/vapors/spray
- P273 Avoid release to the environment
- P272 Contaminated work clothing should not be allowed out of the workplace
- P264 Wash skin thoroughly after handling

**Precautionary statements (Response):**

- P302 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and continue rinsing
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P321 Special treatment (see supplementary first aid instructions in this document)
- P332 + P313 If skin irritation occurs: Get medical advice/attention
- P337 + P313 If eye irritation persists: Get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse
- P391 Collect spillage

**Precautionary statements (Storage):**

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up



Doc. No. :	STR-MTL-SFD-CERT-012
Revision :	01
CO # :	N/A
Date :	01-Feb-2026
Page :	3 of 10

**Precautionary statements (Disposal):**

P501 Dispose of contents/container to an approved waste disposal point

SECTION 3 NOTES:

**SECTION 4: FIRST AID MEASURES**

**GENERAL ADVICE**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**INHALATION**

Remove the victim to fresh air and keep him/her warm and in rest position. If breathing has stopped, loosen clothing, keep airway clear, and give rescue breathing. Seek medical attention immediately.

**EYE CONTACT**

Do not rub. Immediately wash the affected area under running water for at least 15 minutes and seek medical attention by an ophthalmologist.

**SKIN CONTACT**

Remove contaminated clothing, and/or shoes and wash the affected areas with plenty of water or soap water. If unusual feeling remains, seek medical attention.

**INGESTION**

If ingested, give the victim plenty of water or salt water and make him/her vomit. Immediately seek medical attention.

**MOST IMPORTANT SYMPTOMS AND EFFECTS (BOTH ACUTE AND DELAYED)**

The most important known symptoms and effects are described in SECTION 3

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

No data available.

SECTION 4 NOTES:

**SECTION 5: FIRE-FIGHTING MEASURES**

**FIRE AND EXPLOSION HAZARDS**

May polymerize on heating. Sealed container may rupture explosively if hot.

**EXTINGUISHING MEDIA**

Dry chemical powder, foam, carbon dioxide, dry sand and fogging water

	<b>MATERIAL SAFETY DATA SHEET</b>	Doc. No. :	STR-DER-SFD-CERT-012
		Revision :	01
	CO # :	N/A	
	Date :	01-Feb-2026	
	Page :	4 of 10	
<b>STRUCTOMER® Flexible Denture Base (PN70007 V-01)</b>			

**PROHIBITED EXTINGUISHING MEDIA**

Hose water.

**SPECIAL FIREFIGHTING PROCEDURES**

Firefighting operation should be done from upwind position, with wearing protective equipment. Cut off supply of burning material to the source of fire and extinguish the fire using proper extinguishing media. Cool the surrounding buildings with water spray to prevent spread of fire.

Fire fighters should wear proper protective equipment (breathing apparatus, chemical protective suits, gloves, glasses, masks etc.).

**FURTHER INFORMATION**

Use water spray to cool unopened containers.

SECTION 5 NOTES:

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED**

Eliminate sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal or spillage. Prevent entry into drains. Adsorb spillages onto sand, earth or any other suitable adsorbent material. DO NOT adsorb onto sawdust or other combustible materials. Transfer to a container for disposal or recovery. Spillages or uncontrolled discharges into watercourses must be alerted to appropriate regulatory body. Do not discharge into drains/surface waters/ groundwater. Maximize ventilation after accidental release.

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see Section 8.

**ENVIRONMENTAL PRECAUTIONS**

Attention should be taken for the spillage not to flow into sewages, drains, and low ground.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Contain spillage, and then collect and place in container for disposal according to local regulations (see Section 13). Keep in suitable, closed containers for disposal.

**WASTE DISPOSAL METHODS**

Disposal should be in accordance with local, state or national legislation. Incinerate under approved controlled conditions, using incinerators for the disposal for organic chemicals. Decontaminate empty drums before recycling.

SECTION 6 NOTES:



---

## SECTION 7: HANDLING AND STORAGE

---

### HANDLING

#### Engineering Measures

Wear proper protective equipment not to contact with skin and mucosa, and eyes. Countermeasures against static electricity should be taken. Work suits and work shoes should be electrically conductive. Do not handle it roughly in such a way as falling-down, dropping, entraining, and giving shock.

#### Cautions

In the area of handling, set up an enclosed system or a local exhaust ventilation, have good ventilation and prevent the liquids from leaking and splashing.

### STORAGE

#### Adequate storage condition

Keep in dry, cool, well ventilated place, separate from oxidizing agents. Keep away from sources of ignition – No smoking. Keep away from heat and direct (sun) light. Container may be filled for only 80 %. Keep the container closed to avoid evaporation of the product. Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage temperature preferably to be maintained between 23-25 °C (73-77 °F). Safe containers and packaging materials according to the specifications for product containers is to be followed. Do not store in metal containers.

SECTION 7 NOTES:

---

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

---

### APPROPRIATE ENGINEERING CONTROLS

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### RESPIRATORY PROTECTION

Wear suitable respiratory equipment if exposed to level above the occupational exposure limit is likely. A suitable full-face mask with organic vapour cartridge filter type A (BP >65 °C) may be appropriate.

### EYE / FACE PROTECTION

Safety glasses with side-shields conforming to EN166 must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor.

### SKIN PROTECTION

Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. The equipment should be cleaned thoroughly after each use.



**MATERIAL SAFETY DATA SHEET**

**STRUCTOMER® Flexible Denture Base (PN70007 V-01)**

Doc. No. :	STR-MTL-SFD-CERT-012
Revision :	01
CO # :	N/A
Date :	01-Feb-2026
Page :	6 of 10

**HAND PROTECTION**

Wear protective gloves. Recommendations are listed below. Other protective materials may be used based on user’s own risk assessment. Barrier creams may help protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Replace gloves immediately when torn and any change in appearance (dimension, colour, flexibility etc.) is noticed.

Gloves for repeated or prolonged exposure- non-exhaustive list:

Nitrile rubber (NBR), thickness: >0.56 mm, break through time: up to 480m

Gloves for short term exposure/splash protection- non-exhaustive list:

Nitrile rubber (NBR), thickness: 0.1 mm, break through time: up to 30 min

The chemical resistance depends on the type of product and amount of product on the glove. Therefore, gloves need to be changed when in contact with chemicals.

Not suitable gloves- non-exhaustive list:

Latex gloves

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protection glove in practice may be much shorter than the permeation time determined through testing. Use PE gloves under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.

Food, beverages and tobacco products should not be carried, stored or consumed where this material is in use. Before eating, drinking or smoking, wash face and hands thoroughly with soap and water.

The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**OTHER**

Keep working clothes separately. Take off contaminated clothing immediately. Keep away from food, drinks and animal feed. Wash hands thoroughly after handling.

SECTION 8 NOTES:

---

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

---

APPEARANCE	Pink
ODOR	Low odor
PHYSICAL STATE	Liquid
pH AS SUPPLIED	Not available
BOILING POINT	Not available
MELTING POINT	Not available
FREEZING POINT	Not available



Doc. No.	:	STR-MTL-SFD-CERT-012
Revision	:	01
CO #	:	N/A
Date	:	01-Feb-2026
Page	:	7 of 10

FLASH POINT	Not available
FLAMMABILITY	Non combustible
AUTO IGNITION TEMPERATURE	Not available
EXPLOSIVE PROPERTIES	Not applicable
OXIDISING PROPERTIES	Not applicable
VAPOR PRESSURE (mmHg):	Not available
DENSITY	1.05gm/cm3
SOLUBILITY	Not available
WATER SOLUBILITY	Insoluble in water, soluble in organic solvents such as benzene, alcohol, ether
VISCOSITY AT 25 °C	200 - 450 mPa.s
MOLECULAR WEIGHT	Not available

SECTION 9 NOTES:

---

**SECTION 10: STABILITY AND REACTIVITY**

---

**STABILITY**

Stable under recommended storage conditions.

**CONDITIONS TO AVOID (STABILITY)**

The product is stabilized. However, polymerization may occur when the expiry date and/or storage temperature is exceeded. Keep out of direct sunlight and ultra violet radiation. Avoid friction with temperature increase as result. Avoid direct contact with heat sources. Avoid temperatures higher than 60 °C (140 °F). Loss of dissolved air. Loss of polymerization inhibitor.

**INCOMPATIBILITY (MATERIALS TO AVOID)**

When heated above the flash point, flammable vapors are emitted which can mix with air and can burn or be explosive. Vapors are heavier than air and may travel to the source of ignition and flash back. Heat can cause polymerization with rapid release of energy which may rupture the container explosively. Incompatible materials include strong oxidizers, strong reducers, reactive metals, alkalis, peroxides, free radical producing initiators, inert gases and oxygen scavengers.

**HAZARDOUS POLYMERIZATION**

Hazardous polymerization can occur when exposed to direct sunlight. Hazardous exothermic polymerization can occur when heated. Uncontrolled polymerization may cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed storage vessels or containers. Material should not be heated above 100 °C due to polymerization.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Hazardous decomposition products formed under fire conditions- carbon oxides, nitrogen oxides, hydrogen cyanide, oxides of phosphorous, smoke, soot.

SECTION 10 NOTES:



Doc. No. :	STR-MTL-SFD-ERT-012
Revision :	01
CO # :	N/A
Date Date :	01-Feb-2026
Page Page :	8 of 10

**SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY**

No applicable information is available

**SKIN CORROSION/IRRITATION**

No applicable information is available

**SERIOUS EYE DAMAGE/EYE IRRITATION**

No applicable information is available

**RESPIRATORY OR SKIN SENSITISATION**

No applicable information is available

**GERM CELL MUTAGENICITY**

No applicable information is available

**CARCINOGENICITY**

No applicable information is available

**REPRODUCTIVE TOXICITY**

No applicable information is available

**SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE**

Inhalation - May cause respiratory irritation

**SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE**

No applicable information is available

**ASPIRATION HAZARD**

No applicable information is available

SECTION 11 NOTES:

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY**

No applicable information is available

**PERSISTENCE AND DEGRADABILITY**

No applicable information is available

**BIOACCUMULATIVE POTENTIAL**

No applicable information is available

**MOBILITY IN SOIL**

No applicable information is available

**RESULTS OF PBT AND VPVB ASSESSMENT**

No applicable information is available

**OTHER ADVERSE EFFECTS**

No applicable information is available



**MATERIAL SAFETY DATA SHEET**

**STRUCTOMER® Flexible Denture Base (PN70007 V-01)**

Doc. No.	: STR-MTL-SFD-CERT-012
Revision	: 01
CO #	: N/A
Date	: 01-Feb-2026
Page	: 9 of 10

**OTHER INFORMATION**

Do not discharge product unmonitored

SECTION 12 NOTES:

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

---

**WASTE TREATMENT METHODS:**

The company encourages the recycle and reuse of products and packaging, where possible and permitted.

**PRODUCT DISPOSAL**

When recycle or reuse is not possible, the company recommends that our product, especially when classified as hazardous, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed. For disposal within the Eu, waste codes according to local directives should be assigned and disposal should be carried out in agreement with the waste disposal company.

**CONTAMINATED PACKAGING**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Handle contaminated packages in the same way as the product itself. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**OTHER**

Do not release directly or indirectly to surface water, ground water, soil or public sewage system.

SECTION 13 NOTES:

---

**SECTION 14: TRANSPORT INFORMATION**

---

**UN NUMBER**

ADR/RID : No applicable information is available  
IMDG : No applicable information is available  
IATA-DGR : No applicable information is available

**UN PROPER SHIPPING NAME**

ADR/RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods

**TRANSPORT HAZARD CLASS(ES)**

ADR/RID : No applicable information is available  
IMDG : No applicable information is available  
IATA-DGR : No applicable information is available

**PACKAGING GROUP**

ADR/RID : No applicable information is available  
IMDG : No applicable information is available  
IATA-DGR : No applicable information is available

	<b>MATERIAL SAFETY DATA SHEET</b>	Doc. No. :	STR-MTL-SFD-CERT-012
		Revision :	01
	CO # :	N/A	
	Date :	01-Feb-2026	
	Page :	10 of 10	
<b>STRUCTOMER® Flexible Denture BASE (PN70007 V-01)</b>			

**ENVIRONMENTAL HAZARDS**

Information on environmental hazard if relevant see section 14

**SPECIAL PRECAUTIONS FOR USER**

No applicable information is available

SECTION 14 NOTES:

---

**SECTION 15: REGULATORY INFORMATION**

---



Warning

EC Classification  
Hazard Symbol  
Health Phrases

IRRITANT, SENSITIZING AND HARMFUL

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Cause serious eye irritation
- H411 Toxic to aquatic life with long lasting effects

High atmospheric concentrations may lead to irritation of the respiratory tract and anesthetic effects. Repeated and/or prolonged contact may cause dermatitis.

**OTHER REGULATIONS**

Adhere to the national sanitary and occupational safety regulations when using this product.

SECTION 15 NOTES:

---

**SECTION 16: OTHER INFORMATION**

---

Appendix D to the Hazard Communication Standard, 29 CFR 1910.1200  
Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Structo Pte. Ltd. and its affiliates shall not be held liable for any damage resulting from handling, use, contact, processing, storage, transportation, disposal or release of the above product. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified.