

Accura[®] CastPro[™] Free (SL 7800)

Revision Date: February 26, 2014

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the mixture: Accura[®] CastPro[™] Free (SL 7800)

1.2 Use of the preparation: For use with SLA® systems

1.3 Company/undertaking identification:

3D Systems, Inc. 333 Three D Systems Circle Rock Hill, South Carolina U.S.A. Phone: 803.326.3900 or Toll-free Phone: 800.793.3669 Chemical Emergency: 800.424.9300 - Chemtrec 3D Systems Europe Ltd. Mark House, Mark Road Hemel Hempstead Herts HP2 7 United Kingdom Phone: +44 144-2282600 Chemical Emergency: 703.527.3887 - Chemtrec (U.S.)

2. HAZARDS IDENTIFICATION

2.1 Classification

GHS : Regulation (EC) No. 1272/2008, HazCom 2012:

Eye irritation	Category 2	H319
Skin irritation	Category 2	H315
Skin Sensitization	Category 1	H317
Aquatic environment – long-term hazard	Category 2	H411

Regulation (EC) 67/548/EEC and 1999/45/EC:

Xi, R 36/38, R 43, R 51/53

2.2 Label Elements

Regulation (EC) No, 1272/2008:

Hazard pictograms and signal word:



Signal word: Warning

Hazard determining components of labelling:

4,4'.Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

Hazard statements:

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

Precautionary statements:

P280:	Wear protective gloves, protective clothing, eye protection
P302+350:	If on skin, wash with soap and water
P305+351+338:	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and
	easy to do. Continue rinsing
P410+403:	Protect from sunlight. Store in a well-ventilated place
P501:	Dispose of contents/container in accordance with local/regional regulations

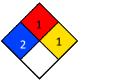


Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH), GHS Rev 04 (2011): US, OSHA, CMA, ANSI WHS Regulations Australia JIS Z 7253 (2012): Japan

Accura[®] CastPro[™] Free (SL 7800)

Revision Date: February 26, 2014



NFPA Ratings 0 = Minimal

- 1 = Slight
- 2 = Moderate
- 3 = Serious
- 4 = Severe

Hazardous Materials Identification System (HMIS):

(Degree of hazard: 0 = low, 4 = extreme);Health2Flammability1Physical Hazards1

Personal Protection:

Skin, eye protection

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization: Description: Organic mixture

3.2 Dangerous components:

				Classificat	ion
Chemical name	CAS-No	EC-No	%	Regulation (EC) 1272/2008	Regulation 67/548/EEC, 1999/45/EC
4,4 [:] .Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	30583-72-3	500-070-7	40-65	Eye Irrit. 2, H319 Skin Irrit.2, H 315 Skin Sens 1, H317 Aqu. Chron.2, H411	Xi, N R36/38-43- 51/53
3-ethyl-3-hydroxymethyl-oxetane	3047-32-3	221-254-0	10-20	Eye Irrit. 2, H319	Xi, R36
Mixture containing triarylsulfonium salt: 50% propylene carbonate , 50% mixed triarylsulfonium hexafluorophosphate salts	109037-77-6	403-490-8	1-5	Eye Irrit. 2, H319 Skin Sens 1, H317 Aqu. Acute 1, H400 Aqu. Chron.1, H410	Xi, N R36-43- 50/53

4. FIRST AID MEASURES

4.1 General Information: Ensure that eyewash stations and safety showers are close to the workstation location.

4.2 In case of inhalation: May cause respiratory irritation. Move affected person to fresh air. If respiratory irritation occurs, if breathing becomes difficult seek medical attention immediately.

4.3 In case of skin contact: May cause irritation or sensitization by skin contact, including redness and/or swelling. Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

4.4 In case of eye contact: Irritating to eyes. Causes redness, swelling and pain. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.

4.5 In case of ingestion: Irritating to mouth, throat and stomach. If ingested, drink plenty of water and seek immediate medical attention. Do not induce vomiting.

4.6 Self-protection of the first aider: Put on appropriate protective equipment (see section 8). Move exposed person to fresh air. Remove contaminated clothing and shoes.



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Revision Date: February 26, 2014

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: Water mist, dry chemical, carbon dioxide, or appropriate foam.

5.2 Extinguishing media which must not be used for safety reasons: High volume water jet.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Thermal decomposition products can include CO₂, CO and smoke.

5.4 Special protective equipment for fire-fighters: Wear full protective clothing, including helmet, self-contained positive-pressure or pressure demand breathing apparatus, protective clothing and facemask.

5.5 Additional information: Move container from area if it can be done without risk. Cool containers with water spray. Avoid inhalation of material or combustion by-products.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing. Consult expert immediately.

6.2 Environmental precautions: Stop the flow of material, if this is without risk. Ventilate contaminated area. Eliminate sources of ignition. In case of contamination of aquatic environment inform local authorities.

6.3 Methods for cleaning up: Wear appropriate protective equipment and clothing. Absorb spillage with suitable absorbent materials. Place all waste in an appropriate container for disposal. The material and its container must be disposed of as hazardous waste. Keep away from sources of ignition.

7. HANDLING AND STORAGE

7.1 Handling Provide adequate ventilation. Use suitable protective equipment. Avoid contact with skin and eyes. Do not breathe vapors or mist. Avoid ignition sources. Do not allow to enter drains or watercourses.

7.2 Storage: Store sealed in the original container at room temperature. Keep this material indoors in a cool, dry, well ventilated place. Store out of direct sunlight or UV light sources. Storage Temperature: below 35 °C / 95 °F. Storage class 10, environmentally hazardous liquids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limit values:

General Product Information: No occupational exposure limits (PEL/TWA) have been established for this product.

Component /	Analysis:
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Component	Component Manufacturer IEL (Internal Exposure Limit)
4,4'.Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	NA
Sulfonium salt mixture	NA
3-ethyl-3-hydroxymethyl-oxetane	NA
Mixture containing triarylsulfonium salt: 50% propylene carbonate , 50% mixed triarylsulfonium hexafluorophosphate salts	NA



Accura[®] CastPro[™] Free (SL 7800)

Revision Date: February 26, 2014

8.2 Exposure controls

Technical measures to prevent exposure: Use explosion-proof local exhaust ventilation.

Instructual measures to prevent exposure: When using, do not eat, drink or smoke. Wash hands after handling and before eating, smoking and using the lavatory and at the end of the day.

Personal protection equipment:

Respiratory protection: If ventilation cannot effectively keep vapor concentrations below established limits, appropriate certified respiratory protection must be provided.
Hand protection: Use impervious nitrile gloves.
Eye protection: Wear safety glasses or chemical goggles.
Body protection: Use apron and closed shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance: Physical state: Liquid Colour: slightly yellow Odour: Mild

9.2 Important health, safety and environmental information

pH (20 ℃):	NA
Melting point/range (°C):	NA
Boiling point/range (°C):	NA
Flash point (°C):	131 <i>°</i> C
Ignition temperature (°C):	NA
Vapour pressure (℃):	NA
Density (g/cm3):	1.08 g/cm ³
Bulk density (kg/m3):	NA
Water solubility (20 °C in g/l):	slightly soluble
Viscosity, dynamic (mPa s):	250 (30°C)
Dust explosion hazard:	NA
Explosion limits:	NA

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Avoid exposure to heat and light. Take necessary actions to avoid static electricity discharge.

10.2 Materials to avoid: Oxidizing materials, strong acids and strong bases

10.3 Hazardous decomposition products: Carbon dioxide, carbon monoxide and other toxic fumes can be released at high temperatures or upon burning.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution: NA

11.2 Acute effects (toxicity tests)

Component	LD ₅₀ Oral	LD50 Dermal
4,4'.Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	>5300 mg/kg (rat)	>2000 mg/kg (rabbit)
Sulfonium salt mixture	>5000mg/kg (rat)	>2000 mg/kg(rat)
3-ethyl-3-hydroxymethyl-oxetane	>2000 mg/kg (rat)	NA



Accura[®] CastPro[™] Free (SL 7800)

Revision Date: February 26, 2014

Irritant and corrosive effects: Irritating

Irritation to respiratory tract: NA

Sensitisation: Causes sensitisation

11.3 Experiences made in practice: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

11.4 General remarks: Carcinogenicity: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

12. Ecological information

12.1 Ecotoxicity: The aquatic toxicity of the product is unknown; however based on components, it is predicted that this material may be toxic to aquatic organisms or cause long-term adverse effects in the aquatic environment. Prevent contamination of soil, drains and surface waters.

Component	Data
Sulfonium salt mixture	EC50/48h – 0.2 mg/l (daphnia) LC50/96h- 2.3 mg/l(poecilia reticulata)
4,4'.lsopropylidenedicyclohexanol, oligomeric reaction products with 1- chloro-2,3-epoxypropane	LC/EC/IC 50: 1-10 mg/I

12.2 Mobility: No information available for product.

12.3 Persistence and degradability: No information available for product.

12.4 Results of PBT assessment: No information available for product

12.5 Other adverse effects: No information available for product

13. DISPOSAL CONSIDERATIONS

13.1 Appropriate disposal / **Product:** Do not contaminate drains, soil or surface waters with this material or its container. Reduce waste by attempting to utilize product completely. Dispose of this container and its contents in accordance with all local, state, and federal regulations. Do not reuse or refill.

13.2 Waste codes / waste designations according to EWC / AVV: 070208

13.3 Appropriate packaging: NA

13.4 Additional information: Prior to disposal 3D Systems recommends consulting an approved waste disposal firm to ensure regulatory compliance.

14. TRANSPORT INFORMATION

14.1 Land transport (ADR/RID/GGVSE):

Official transport designation: Environmentally hazardous substance, liquid N.O.S. UN-No.: 3082 Class: 9 Classification Code: M6 Packing group: III Hazard label: 9 Risk No: 90 Tunnel restriction code: 3 (E) Contains. Epoxy resin



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Revision Date: February 26, 2014

14.2 Sea transport (IMDG-Code/GGVSee):

Official transport designation: Environmentally hazardous substance, liquid N.O.S. UN-No.: 3082 Class: 9 Packing group: III Hazard label: 9 Contains. Epoxy resin

14.3 Air transport (ICAO-IATA/DGR):

Official transport designation: Environmentally hazardous substance, liquid N.O.S. UN-No.: 3082 Class: 9 Packing group: III Hazard label: 9 Contains. Epoxy resin

15. REGULATORY INFORMATION

15.1 EU regulations

EINEC/ELINCS/NLP: All materials are listed REACH Annex XVII: None listed

15.2 EU- National regulations

Wassergefährdungsklasse (water hazard class, Germany): WGK 2: Hazard to waters

15.3 US FEDERAL

TSCA: All materials are listed on the TSCA Inventory or are not subject to TSCA requirements SARA 302 EHS List (40 CFR 355 Appendix A): None listed SARA 313 (40 CFR 372.65): Antimony Compounds (category N010) CERCLA (40 CFR 302.4): None listed

15.4. Australian regulations

SUSDP, Industrial Chemicals Act 1989: Australian Inventory of Chemical Substances, AICS: Listed

15.5 Japanese regulations

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Industrial Health and Safety Law	Article 57-2
Hazardous material	not applicable
Organic solvent poison prevention rule	not applicable
Ordinance on prevention of hazard due to	
specified chemical substances	not applicable
Lead Poisoning Prevention Rule	not applicable
Poison and Deleterious Substance Control law	not applicable
PRTR and Promotion of Chemical	
Management law (PRTR Law)	no listed components
Fire Services Act	Category 4, Class 3, oil
Explosives Law	not applicable
High pressure gas safety law	not applicable
Export Trade Control Order	applicable
Waste Disposal and Public Cleaning Law	applicable, industrial waste



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Revision Date: February 26, 2014

16. OTHER INFORMATION

16.1 Relevant Hazard Statements (number and full text) referred to in sections 2 and 3 (according to (EC) No. 1272/2008):

Skin irrit. 2, H 315- Skin irritation, category 2, H315: Causes skin irritation Skin sens. 1, H 317- Skin sensitization, category 1, H317 : May cause an allergic skin reaction Eye Irrit. 2, H319- Eye irritation, category 2, H319: Causes serious eye irritation Aqu. Acute 1, H400- Aquatic environment,-acute hazard, category 1, H400: Very toxic to aquatic life Aqu. Chron. 2, H411- Aquatic environment – long-term hazard, category 2, H411: Very toxic to aquatic life with long lasting effects Aqu. Chron. 1, H 410- Aquatic environment – long-term hazard , category 1, H410: Toxic to aquatic life with long lasting effects

Relevant R-Phrases (number and full text) referred to in sections 2 and 3:

R36: Irritating to eyes. R36/38- Irritating to eyes and skin R43: May cause sensitization by skin contact R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.2 Further information:

SDS Creation Date: February 26, 2014 SDS Revision #: SDS Revision Date: Reason for Revision:

www.3dsystems.com 800.793.3669 (Toll-free in the US GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.) 803.326.3900 (Outside the U.S. GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.) +44 144-2282600 (Europe GMT+01:00; Mon – Fri, 08:00 a.m. - 17:00 p.m. MEZ)

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