



Safety Data Sheet
according to Regulation (EC) No 1907/2006 and 1272/2008,
Hazard Communication Standard 29 CFR 1910 (USA),
WHS Regulations Australia,
JIS Z 7253 (2012) Japan

Accura[®] Xtreme[™]

Revision Date: June 28, 2016

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

1.1 Identification of the mixture: Accura[®] Xtreme[™]

1.2 Use of the preparation: For SLA systems

1.3 Company/undertaking identification:

3D Systems, Inc.
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Rock Hill, South Carolina U.S.A.
Phone: 803.326.3900 or
Toll-free Phone: 800.793.3669
e-mail: moreinfo@3dsystems.com
Chemical Emergency:
800.424.9300 – Chemtrec (US)

3D Systems Europe Ltd.
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Chemical Emergency:
+1.703.527.3887 - Chemtrec

2. HAZARDS IDENTIFICATION

2.1 Classification

GHS : Regulation (EC) No. 1272/2008, 29 CFR 1910.1200 (USA), Australian Dangerous Goods Code:

Serious eye irritation	Category 2	H319
Skin irritation	Category 2	H315
Skin Sensitization	Category 1	H317
Aquatic environment – long-term hazard	Category 3	H412

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

Xi, R 36/38, R 43, R 52/53

2.2 Label Elements

Regulation (EC) No, 1272/2008:

Hazard pictograms and signal word:



GHS07

Signal word: Warning

Hazard determining components of labelling:

3,4- Epoxycyclohexylmethyl 3,4-epoxycyclohexane carboxylate

Hazard statements:

H319: Causes serious eye irritation
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H412: Harmful to aquatic life with long lasting effects

Precautionary statements:

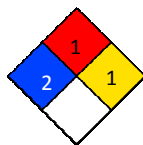
P280: Wear protective gloves, protective clothing, eye protection
P302+350: If on skin, wash with soap and water
P305+351+338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P410+403: Protect from sunlight. Store in a well-ventilated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



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NFPA Ratings
0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Hazardous Materials Identification System (HMIS):

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

Health **2**
Flammability **1**
Physical Hazards **1**

Personal Protection:

Skin, eye protection

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization:

Description: Organic mixture

3.2 Dangerous components:

Chemical name	CAS-No	EC-No	%	Classification	
				Regulation (EC) 1272/2008	Regulation 67/548/EEC, 1999/45/EC
3,4- Epoxycyclohexylmethyl 3,4-epoxycyclohexane carboxylate	2386-87-0	219-207-4	25-45	Eye Irrit. 2, H319 Skin Irrit.2, H 315 Skin Sens.1, H 317 Aqu. Chron. 3, H 412	Xi R36/38, R43, R52/53
1,6-bis(2,3-epoxypropoxy)hexane	16096-31-4	240-260-4	15-25	Eye Irrit. 2, H319 Skin Irrit.2, H 315 Skin Sens.1, H 317 Aqu. Chron. 3, H 412	Xi R36/38, R43, R52/53
Mixture containing triarylsulfonium salt: 50% Propylene Carbonate 50% Mixed triarylsulfonium salts	108-32-7, 71449-78-0, 89452-37-9	203-572-1 403-500-0	1-10	Eye Irrit. 2, H319 Skin Sens 1, H317 Aqu. Acute 1, H400 Aqu. Chron.1, H410	Xi, N R36, R43, R50/53

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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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:

Component	Component Manufacturer IEL (Internal Exposure Limit)
3,4-Epoxy cyclohexylmethyl 3',4'-epoxycyclohexane carboxylate	NA
Propylene Carbonate	NA
1,6-bis(2,3-epoxypropoxy)hexane	NA
Antimonate mixture	0.5mg/m ³ MAK (Switzerland, Netherlands, Austria) 0.5 mg/m ³ VME (France) 0.5 mg/m ³ TWA (Portugal, Finland, Norway, Ireland, Denmark) 0.5 mg/m ³ VLA-ED (Spain) 0.5 mg/m ³ NDS (Poland)

8.2 Exposure controls

Technical measures to prevent exposure: Use 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.



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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: Dark grey

Odour: Mild

9.2 Important health, safety and environmental information

pH (20 °C):	NA
Melting point/range (°C):	NA
Boiling point/range (°C):	NA
Flash point (°C):	239 °C
Ignition temperature (°C):	NA
Vapour pressure (°C):	NA
Density (g/cm³):	1.1
Bulk density (kg/m³):	NA
Water solubility (20 °C in g/l):	slightly soluble
Partition coefficient:	NA
n-Octanol/Water (log Po/w):	NA
Viscosity, dynamic (mPas):	200-300 (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	LD ₅₀ Dermal
3,4- Epoxycyclohexylmethyl 3',4'-epoxycyclohexane carboxylate	5000 mg/kg (rats)	>23400 mg/kg (rabbits)
1,6-bis(2,3-epoxypropoxy)hexane	> 8,500 mg/Kg (rats)	> 4,900 mg/Kg(rabbits)
Propylene Carbonate	20700 mg/kg (mouse)	>20 ml/kg (rabbit)
Antimonate mixture	>2000 mg/Kg (rats)	>2000 mg/Kg (rabbits)

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.



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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
3,4-Epoxy cyclohexylmethyl 3,4-epoxycyclohexane carboxylate	EC50/48h – 40 mg/l (daphnia magna) LC50/96h – 24 mg/l (onkorynchus mykiss)
1,6-bis(2,3-epoxypropoxy)hexane	EC50/48h – 47 mg/l (daphnia) LC50/96h – 30 mg/l (leuciscus idus)
Antimonate mixture	EC50/24h – 4.4 mg/l (daphnia) EC50/48h – 0.68 mg/l (daphnia)

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): Not regulated

14.2 Sea transport (IMDG-Code/GGVSee): Not Regulated

14.3 Air transport (ICAO-IATA/DGR): Not Regulated

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



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15.4 Australian regulations

SUSDP, Industrial Chemicals Act 1989:

Australian Inventory of Chemical Substances, AICS: Listed

15.5 Japanese regulations

Chemical Risk Information platform (CHRIP)	Listed
Industrial Health and Safety Law	Article 57-2: (Cabinet Order 38, antimony and its compounds, excludes materials containing ≤1%)
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	antimony compounds: hazardous substance
PRTR and Promotion of Chemical Management law	Class 1 designated substances (Cabinet Order 25, antimony and its compounds, excludes materials containing ≤1%)
Fire Services Act	Category 4, Class 4, oil
Explosives Law	not applicable
High pressure gas safety law	not applicable
Export Trade Control Order	not applicable
Waste Disposal and Public Cleaning Law	Applicable. Before disposal, consult an approved waste disposal operative to ensure regulatory compliance.

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: Causes skin irritation

Skin Sens. 1, H 317- Skin sensitization, category 1: May cause an allergic skin reaction

Eye Irrit. 2, H319- Serious eye irritation, category 2: Causes serious eye irritation

Aqu.Chron. 3, H412- Aquatic environment – long-term hazard, category 3: Harmful to aquatic life with long lasting effects

Aqu. Acute 1, H400- Aquatic environment- acute hazard, category 1: Very toxic to aquatic life

Aqu. Chron.1, H410- Aquatic environment-long term hazard, category 1: Very 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

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.2 Further information:

SDS Creation Date: July 3, 2007

SDS Revision #: 07-A

SDS Revision Date: June 28, 2016

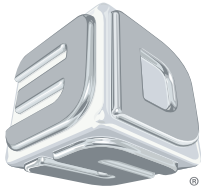
Reason for Revision: Update section 8, 15.

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