

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Trade Name: **accuGen™ 100 – Nd Type SL Material**
System/Laser Compatibility: For SLA® equipped with solid-state (Nd:YV04) lasers
accuGen™ 100 - Ar type SL material
 For SLA® 500 systems equipped with Argon-Ion (Ar/Ion) lasers
accuGen™ 100 - HC type SL material
 For SLA® 250 systems equipped with He/Cd lasers

Chemical Family: Epoxy resin containing reactive diluent
Product Use: Material for SLA® series stereolithography systems

Manufacturer:



	In the U.S./Canada	In Europe
Manufacturer Contact	3D Systems, Inc. 26081 Avenue Hall Valencia, CA 91355 U.S.A.	3D Systems GmbH Guerickeweg 9 Darmstadt, Germany
For Information:	Phone: 970.257.4700 or Toll-free Phone: 800.793.3669	Phone: +49 (0) 6151 357-357 Fax: +49 (0) 6151 357-111
Emergency:	800.424.9300 - Chemtrec	703.527.3887 - Chemtrec (U.S.)

Hazardous Materials Identification System (HMIS):

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

Health **2***
 Flammability **1**
 Physical Hazards **0 (None)**

National Fire Protection Association (NFPA):

Mixture, Not Rated

II. COMPOSITION INFORMATION

Chemical Identity	Concentration	EU Classification	
		Symbol	R-Phrase
Aliphatic polyol polyglycidyl ether	10 – 30	Xi	36/38
Cycloaliphatic epoxy resin	30 - 60	Xi	43
Antimony compound	0.1 – 5	Xi, N	43, 50/53
Aliphatic polyol	1 – 5	Xi	36
Alkyl carbonate	0.1 – 5	Xi	36

** This material is not listed in Annex 1 of Directive 88/379/EEC. It has been classified according to the conventional method based upon information from similar methods.*

OSHA Classification: Sensitizer, irritant

III. HAZARDS IDENTIFICATION

WARNING! MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT HANDLE OR EMPTY IN PRESENCE OF FLAMMABLE VAPOR. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

FOR INDUSTRIAL USE ONLY.



Potential Health Effects

EYE: May cause irritation consisting of redness, swelling and/or pain.
 SKIN: May cause irritation consisting of redness and/or swelling.
 INHALATION: Inhalation of high concentrations of vapor, mist, or fume may cause mild respiratory irritation.
 INGESTION: Ingestion of large amounts may cause nausea, diarrhea and/or stomach pain.
 CHRONIC: May cause an allergic skin reaction with repeated or prolonged exposure consisting of redness, swelling and/or rash (urticaria).

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
 May aggravate an existing dermatitis.

POTENTIAL ENVIRONMENTAL EFFECTS: May be toxic to aquatic organisms and cause long-term adverse effects in the aquatic environment.

IV. FIRST AID MEASURES

Skin contact: Wipe with absorbent paper or textile towels. Wash with plenty of soap and water. Do not use organic solvents. In case of dermatitis, seek medical attention.
 Eye contact: Rinse immediately with water for at least 15 minutes. Seek medical attention immediately.
 Inhalation: Move affected person to fresh air. In case of unconsciousness, rest in stable lateral position (recovery position). In case of asphyxia, initiate artificial respiration immediately. Seek medical attention immediately.
 Ingestion: Affected person should drink 500 - 800 ml water, if possible with suspended activated carbon for medical use. Give water repeatedly. In case of spontaneous vomiting, be sure that vomitus can freely drain because of danger of suffocation. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in case of unconsciousness or convulsions. Seek medical attention.
 Notes to Physician: Treat symptomatically and supportively.

V. FIRE FIGHTING MEASURES

Flashpoint: 183°C (361°F) – not flammable, but will burn at high temperature.
 Extinguishing media: Use water mist, dry chemical, carbon dioxide or chemical foam. DO NOT USE high volume water jet.
 Protective equipment: Use full protective clothing for chemicals and self-contained breathing apparatus.

VI. ACCIDENTAL RELEASE MEASURES

For small spills, wipe up with absorbent, inert material and place in suitable and closable container for disposal. Use proper personal protective equipment as indicated in Section VIII. Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

VII. HANDLING AND STORAGE

Handle and open container with care. Avoid vapor formation and ignition sources. Ensure good ventilation and local exhaust. Keep away from food and drink. Store in the original container securely closed and at room temperature.
 Personal precautions: Do not breathe vapor. Avoid ignition sources. Avoid contact with skin, eyes and clothing.
 Methods for cleaning: Take up with absorbent, inert material and place in suitable and closable container for disposal.

VIII. EXPOSURE CONTROLS, PERSONAL PROTECTION

	ACGIH TLV	OSHA PEL	International OELs
Aliphatic polyol polyglycidyl ether	None established	None established	None established
Cycloaliphatic epoxy resin	None established	None established	None established
Antimony compound	None established	None established	None established
Aliphatic polyol	None established	None established	None established
Alkyl carbonate	None established	None established	None established



XII. ECOLOGICAL INFORMATION

The aquatic toxicity of the product is unknown, however, based on components, it is not predicted that this material would be toxic to aquatic organisms or cause long-term adverse effects in the aquatic environment. Prevent contamination of soil, drains, and surface waters.

XIII. DISPOSAL CONSIDERATIONS

Incineration or landfill in accordance with local regulations as special waste. Contaminated packaging material should be disposed of identically to the product itself. Uncontaminated packaging material should be treated as household waste or as recycling material.

XIV. TRANSPORT INFORMATION

	US DOT	RID/ADR	IMDG	IATA	IMO	Canada TDG
Shipping Name	Not regulated					
Hazard Class:						
UN Number:						
Packing Group:						

FLASHPOINT: 183°C (DIN 51758)

XV. REGULATORY INFORMATION

US FEDERAL

TSCA: All materials are listed on the TSCA Inventory
 CERCLA: None
 SARA 313: None
 SARA 312 Hazard Class: Health: Acute – Yes Chronic – Yes
 Fire: Yes
 Sudden Release of Pressure: No
 SARA 302 EHS List: None of the components are listed

STATE RIGHT-TO-KNOW STATUS

Component	CA Prop. 65	Michigan	New Jersey	Pennsylvania	Massachusetts
None Listed					

EUROPEAN/INTERNATIONAL REGULATIONS

Hazard Classification

Danger Symbol: Xi, N Irritant, Dangerous to the environment

Risk Phrases: R 36/38 Irritating to eyes and skin.
 R 43 May cause sensitization by skin contact.
 R51/53 Toxic to aquatic organisms, may cause long term and adverse effects in the aquatic environment.

Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S 28 After contact with skin, rinse immediately with plenty of soap and water.
 S 36/37 Wear suitable protective clothing and gloves.
 S 57 Use appropriate containment to avoid environmental contamination.

Contains: Aliphatic polyol polyglycidyl ether
 Cycloaliphatic epoxy resin
 Antimony compound

Canadian DSL List:The components of this product are on the DSL or are exempt from reporting under the New Substances Notification Regulations.

Canadian IDL:.....None of the ingredients are on this list.

WHMIS:D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.



XVI. ADDITIONAL INFORMATION

MSDS Creation Date:4/19/02

MSDS Revision:B

MSDS Revision Date:5/12/04

Reason for Revision:.....New products added to the product line

For more information:.....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.)

970.257.4700 (Outside the U.S. GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)

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