



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® L-9000

Revision Date: July 29, 2015

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

1.1 Identification of the mixture: Accura® L-9000

1.2 Use of the preparation: For use with 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
800.424.9300 - Chemtrec

3D Systems Europe Ltd.
Mark House, Mark Road
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703.527.3887 - Chemtrec (U.S.)

2. HAZARDS IDENTIFICATION

2.1 Classification

GHS : Regulation (EC) No. 1272/2008, Hazard Communication Standard 29 CFR 1910, Australian Dangerous Goods Code:

Flammable liquid	Category 2	H225
Acute toxicity, dermal	Category 4	H312
Acute toxicity, inhalation	Category 4	H332
Skin corrosion/irritation	Category 2	H315
Serious eye damage/irritation	Category 2A	H319
Specific target organ toxicity, repeated exposure	Category 2	H373
Specific target organ toxicity, single exposure, narcotic effects	Category 3	H336

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

F, Xn/Xi, R10/11, R20/21 R36/38, R66/67

2.2 Label Elements

Regulation (EC) No, 1272/2008:

Hazard pictograms and signal word:



GHS02



GHS07



GHS08

Signal word: Danger

Hazard determining components of labelling: Acetone

Hazard statements:

H225: Highly flammable liquid and vapour
H312: Harmful in contact with skin
H332: Harmful if inhaled
H315; Causes skin irritation
H319: Causes serious eye irritation
H373: Causes damage to organs through prolonged or repeated exposure
H336: May cause drowsiness or dizziness



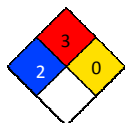
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Precautionary statements:

- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261; Avoid breathing dust/fumes/gas/mist/vapors/spray.
 P273: Avoid release to the environment.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor
 P302+P352+P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.



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 3
 Reactivity 0

Personal Protection: H

Skin, eye protection

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization:

Description: Mixture of acrylate oligomers and solvents preparation

3.2 Dangerous components:

Chemical name	CAS-No	EC-No	%	Classification	
				Regulation (EC) 1272/2008	Regulation 67/548/EEC, 1999/45/EC
Acetone	67-64-1	200-622-2	30 – 60	Flam. Liq. 2, H225, Eye Irrit. 2, H319, STOT SE 3, H336	F, Xi R11, R36, R66, R67
Xylene	1330-20-7	215-535-7	25 – 50	Flam. Liq. 3, H226, Acute Tox. 4, H312 Acute Tox. 4, H332, Skin Irrit. 2, H315	Xn, Xi R10, R20/21, R36/37/38, R65
Ethylbenzene	100-41-4	202-849-4	1 – 10	Flam. Liq. 2, H225, Asp. Tox. 1, H304 STOT Rep. Exp. 2, H373 Acute Tox. 4 H332 Aquatic Chronic 3, H412	F, Xn R11, R20, R48/20, R65

4. FIRST AID MEASURE

- 4.1. Inhalation:** Move to fresh air. Call a physician immediately.
- 4.2. Eye contact:** Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
- 4.3. Skin contact:** Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
- 4.4. Ingestion:** Immediately give plenty of water (if possible charcoal slurry). Do not induce vomiting. Obtain medical attention.



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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. Avoid formation of aerosol. 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: between 2 and 35 °C / 35.5 and 95 °F. Storage class 3, flammable 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:

Components	CAS-No.	Control parameters	Update	Basis
Acetone	67-64-1	1,210 mg/m ³ 3,620 mg/m ³		GB-OES 8H GB-OES 15M
Xylene	1330-20-7	220 mg/m ³ 441 mg/m ³		GB-OES 8H GB-OES 15M
Ethylbenzene	100-41-4	441 mg/me 552 mg/m ³		GB-OES 15M GB-OES 8H



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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.

Do not breathe vapours/dust.

Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing.

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 gloves (butyl rubber, nitrile)

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: colorless

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):	-20 °C (method: estimated)
Ignition temperature (°C):	NA
Vapour pressure (°C):	10 kPa (20 °C)
Density (g/cm³):	0.89 (25 °C)
Bulk density (kg/m³):	NA
Water solubility (20 °C in g/l):	insoluble
Viscosity, dynamic (mPa s):	NA
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	LD50 Oral	LD50 Dermal
Xylene	2119 mg/kg	>1700 mg/kg (rabbit)
Acetone	3000 mg/kg	

11.3 General remarks:

Carcinogenicity: Probable carcinogenic for humans (ethylbenzene).



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12. Ecological information

12.1 Ecotoxicity: The aquatic toxicity of the product is unknown.

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 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):

ADR:

UN-No: : 1993
Class: : 3
Classification code : F1
Packaging group : II
Risk No. : 33
ADR/RID-Labels : 3
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
Contains : ACETONE
Contains : XYLENE

RID:

UN-No: : 1993
Class: : 3
Packaging group : II
Risk No. : 33
ADR/RID-Labels : 3
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
Contains : ACETONE
Contains : XYLENE

14.2 Sea transport (IMDG-Code/GGVSee):

IMDG:

UN-No: : 1993
Class: : 3
Packaging group : II
ADR/RID-Labels : 3
MFAG :
EmS: : F-E S-E
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
Contains : ACETONE
Contains : XYLENE



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14.3 Air transport (ICAO-IATA/DGR):

IATA-DGR:

UN-No	:	1993
Class	:	3
Packaging group	:	II
Packing Instruction (cargo aircraft)	:	307
Max. Qty/Pack. (999.00 – No limit)	:	60.00 L
Packing Instruction (passenger aircraft)	:	305
Max. Qty/Pack. (999.00 – No limit)	:	5.00 L
ADR/RID-Labels"	:	3
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S.
Contains	:	ACETONE
Contains	:	XYLENE

15. REGULATORY INFORMATION

15.1 EU regulations

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

15.2 .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
CERCLA (40 CFR 302.4): None listed

15.3. Australian regulations

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

15.4 Japanese regulation

Industrial Health and Safety Law	not applicable
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	
PRTR and Promotion of Chemical Management law	not applicable
Fire Services Act	Category 4, Class 1
Explosives Law	not applicable
High pressure gas safety law	not applicable
Export Trade Control Order	Not applicable
Waste Disposal and Public Cleaning Law	applicable, industrial waste. Before disposal, consult an approved waste disposal operative to ensure regulatory compliance.



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OTHER INFORMATION

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

Flam. Liq. 2, H225- Flammable liquid, category 2, H225: Highly flammable liquid and vapour
Eye Irrit. 2, H319- Eye irritation, category 2: Causes serious eye irritation
STOT SE 3, H336: Specific target organ toxicity, single exposure , narcotic effects, category 3, H336: May cause drowsiness and dizziness
Flam. Liq. 3, H226- Flammable liquid, category 3, H226: Flammable liquid and vapour
Acute Tox. 4, H312- Acute toxicity, dermal, category 4, H312: Harmful in contact with skin
Acute Tox. 4, H332 - Acute toxicity, inhalation, category 4, H332 : Harmful if inhaled
Skin Irrit. 2, H315 - Skin Irritation, category 2, H 315 : Causes skin irritation
Asp. Tox. 1, H304 – Aspiration hazard, category 1, H304: My be fatal if swallowed and enters airways
STOT Rep. Exp. 2, H373: Specific target organ toxicity, repeated exposure, category 2, H373: Causes damage to organs though prolonged or repeated exposure
Aquatic Chronic 3, H412- Aquatic environment- long term hazard, category 3, H412: Harmful to aquatic life with long lasting effects

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

F: Highly flammable
Xn: Harmful
R10: Flammable
R11: Highly flammable
R20: Harmful by inhalation
R20/21: Harmful by inhalation and in contact with skin
R36: Irritating to eyes.
R36/37/38: Irritating to eyes, respiratory system and skin
R36/38: Irritating to eyes and skin
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation
R65: Harmful: may cause lung damage if swallowed
R66: Repeated exposure may cause skin dryness or cracking
R67: Vapours may cause drowsiness and dizziness

16.2 Further information:

SDS Creation Date: December 5, 2012
SDS Revision #:-02-A
SDS Revision Date: July 29, 2015
Reason for Revision: update section 8.2

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