

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

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Date: 30-Jun-09

Material Name: Clean-A-Part Solution

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Trade Name: Clean-A-Part Solution

Chemical Family: Organic solvent

SDS Issue date: 11 May 2009, version A

Product Use: For use with film transfer imaging (FTI) systems

Product Number: 273003

Manufacturer:



Manufacturer Contact	3D Systems Europe Ltd. Mark House, Mark Road Hemel Hempstead Herts HP2 7 United Kingdom
For Information	Phone: +44 144-2282600
Emergency	In an emergency call a local national poison control unit or the Chemtrec emergency number in the U.S: (+1) 703.527.3887

2. HAZARD IDENTIFICATION

Main Hazards:

Irritant. Irritating to eyes and skin. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Classification: Hazardous, according to Directive 1999/45/EC and Annex VI, Directive 67/548/EEC



Xi (Irritant)

Risk Phrases:

R36 Irritating to eyes

Safety Phrases:

S2 Keep out of the reach of children.

3. COMPOSITION INFORMATION

Name	E.C. No.	CAS No.	Content	Symbol	R
1,3-Dioxolan-2-one, 4-methyl-	203-572-1	108-32-7	95-100%	Xi	36

4. FIRST AID MEASURES

Skin contact: Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists. Avoid exposure to light sources.

Inhalation: Move affected person to fresh air. In case of asphyxia, initiate artificial respiration immediately. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: Ingestion is unlikely. However, if large quantities are swallowed, get medical attention do not induce vomiting. Never give anything by mouth to an unconscious person.

Notes to Physician



Material Name: Clean-A-Part Solution

Allergic dermatitis in susceptible individuals may be delayed. It may appear after weeks or even months of frequent and prolonged contact.

5. FIRE FIGHTING MEASURES

Flash Point: > 93 °C, (> 200 °F) Method Used: estimated
Upper Flammable Limit (UFL): NA Lower Flammable Limit (LFL): NA
Auto Ignition: NA Rate of Burning: NA

Hazardous Combustion Products: Thermal decomposition products can include CO₂, CO, NO_x and smoke.
Extinguishing Media: Use water mist, dry chemical, carbon dioxide, or chemical foam. Avoid the use of a stream of water to control fire since frothing can occur.
Fire Fighting Equipment/Instructions: Wear full protective clothing, including helmet, self-contained positive-pressure or pressure-demand breathing apparatus, protective clothing and facemask. Move container from area if it can be done without risk. Cool containers with water spray. Do not use high-volume water jet. Avoid inhalation of material or combustion by-products.

6. ACCIDENTAL RELEASE MEASURES

Containment Procedures: Stop the flow of material, if this is without risk. Ventilate contaminated area. Eliminate sources of ignition. Do not release material or contaminated water into drains, soil or surface waters.
Clean-Up Procedures: Wear appropriate protective equipment and clothing. Absorb spillage with non-combustible absorbent materials. Place all waste in an appropriate container for disposal.
Evacuation Procedures: Keep unnecessary personnel away.
Special Procedures: NA

7. HANDLING AND STORAGE

Handling Procedures: Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or mist.
Storage Procedures: 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 other light sources.
Storage Temperature: 0 °C – 35 °C / 32 °F – 95 °F

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

A: General Product Information: No occupational exposure limits have been established.

Engineering Controls

Ventilation must effectively remove any vapours. An eyewash fountain and safety shower are recommended.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face: Wear chemical goggles or face shield.
Skin: Use impervious nitrile gloves and apron.
Respiratory: If ventilation cannot effectively keep vapor concentrations below established limits, appropriate certified respiratory protection must be provided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless	Odor	Mild
Physical State.....	Liquid	pH.....	7
Vapor Pressure	0.3 mmHg at 20C	Vapor Density.....	>3.5 (air=1)
Boiling Point	241 °C	Viscosity	2.8mPas
Solubility (H ₂ O)	Insoluble @ 20°C (68 °F)	Specific Gravity	1.2069
Percent Volatile	NA	Molecular Weight.....	120.04

10. CHEMICAL STABILITY AND REACTIVITY

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Chemical Stability: Stable under normal conditions of handling, use and transportation.
Conditions to Avoid: Avoid exposure to heat and light.
Incompatibility: Oxidizing materials, strong acids and strong bases.
Hazardous Decomposition: Thermal decomposition products can include CO₂, CO, and smoke.

11. TOXICOLOGICAL INFORMATION

Warning Statements and Properties: Irritating to eyes
Routes of absorption: Inhalation, skin, eyes

Signs, symptoms and effects of exposure:

Eyes: May cause irritation consisting of redness, swelling and pain.
Skin: May cause moderate skin irritation.
Inhalation: May cause respiratory irritation.
Ingestion: Ingestion is unlikely but may cause nausea, diarrhea and/or stomach pain.
Chronic: No information found.

Medical Conditions Aggravated by Exposure: Could irritate an existing dermatitis or respiratory condition.

Acute and Chronic Toxicity

A: General Product Information: No data available.

B: Component Analysis:

Component	LD ₅₀ Oral	LD ₅₀ Dermal
1,3-Dioxolan-2-one, 4-methyl-	20700 mg/kg (mouse)	>20 ml/kg (rabbit)

Carcinogenicity

A: General Product Information: None.

B: Component Carcinogenicity: Neither this product or any of its components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

12. ECOLOGICAL INFORMATION

Ecotoxicity

General Product Information: No information available for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Instructions

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 product and its container in accordance with all local, state, and federal regulations. Prior to disposal of unused material, 3D Systems Inc., recommends consulting an approved waste disposal operative to ensure regulatory compliance.

14. TRANSPORT INFORMATION

	US DOT	RID/ADR	IMDG	IATA	IMO	Canada TDG
Shipping Name	Not Regulated					

15. REGULATORY INFORMATION

European Union Regulatory Information

This product is labeled as follows:

Xi Irritant
R36 Irritating to eyes

S2: Keep out of the reach of children.

Contains: 1,3-Dioxolan-2-one, 4-methyl-



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16. ADDITIONAL INFORMATION

Full text of all Risk Phrases in Sections 2 & 3

R36 Irritating to eyes

MSDS Creation Date: 18 May 2009

MSDS Revision #: A

MSDS Revision Date:..... NA

Reason for Revision: Release

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.)

803-326-3900 (Outside the U.S. GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)

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Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

CFR = Code of Federal Regulations

CPR = Controlled Products Regulations

DOT = Department of Transportation

DSL = Domestic Substances List

EINECS = European Inventory of Existing Commercial Chemical Substances

EPA = Environmental Protection Agency

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IDL = Ingredients Disclosure List

IEL = Internal Exposure Limit

mg/Kg = milligrams per Kilogram

mg/L = milligrams per Liter

mg/m³ = milligrams per Cubic Meter

MSHA = Mine Safety and Health Administration

NA = Not Applicable or Not Available

NIOSH = National Institute for Occupational Safety and Health

NJTSP = New Jersey Trade Secret Registry

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

SARA = Superfund Amendments and Reauthorization Act

STEL = Short Term Exposure Limit

TDG = Transport Dangerous Goods

TSCA = Toxic Substances Control Act

WHMIS = Workplace Hazardous Materials Information System.