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**Section 1 - PRODUCT AND COMPANY IDENTIFICATION**

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**Material Name**

OBJET Support SUP706

**Chemical Family**

acrylic compounds

**Restrictions on Use**

None known.

**Details of the supplier of the safety data sheet**

Stratasys GmbH

Airport Boulevard B 210

D-77836

Rheinmünster Germany

Phone: +49 722 97 77 20

Emergency Phone #: +49 722 97772280

E-mail: objet-info@stratasys.com

www.stratasys.com

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**Section 2 - HAZARDS IDENTIFICATION**

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**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2

**GHS Label Elements****Symbol(s)****Signal Word**

Warning

**Hazard Statement(s)**

Causes skin irritation.

Causes serious eye irritation.

**Precautionary Statement(s)****Prevention**

Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

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IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

### Storage

None needed according to classification criteria.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
57-55-6	1,2-Propylene glycol	<35
25322-68-3	Polyethylene glycol	<30
--	Acrylic monomer	<25
947-19-3	Methanone, (1-hydroxycyclohexyl)phenyl-	<2

The chemical identity and/or percentage of composition is being withheld as a trade secret.

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## Section 4 - FIRST AID MEASURES

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### Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

### Skin

IF ON SKIN: Wash with plenty of soap and water. Get medical advice/attention. Wash contaminated clothing before reuse.

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### Ingestion

If swallowed, get medical attention.

### Most Important Symptoms/Effects

#### Acute

skin irritation, eye irritation.

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**Delayed**

No information on significant adverse effects.

**Note to Physicians**

No additional information available.

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### Section 5 - FIRE FIGHTING MEASURES

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**Extinguishing Media**

**Suitable Extinguishing Media**

Use extinguishing agents appropriate for surrounding fire. Class B fires. Use carbon dioxide (CO<sub>2</sub>), regular dry chemical (sodium bicarbonate), regular form (Aqueous Film Forming Foam-AFFF), or water spray to cool containers.

**Unsuitable Extinguishing Media**

None known.

**Special Hazards Arising from the Chemical**

Slight fire hazard.

**Hazardous Combustion Products**

oxides of carbon

**Fire Fighting Measures**

Move material from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Keep unnecessary people away, isolate hazard area and deny entry. Keep out of water supplies and sewers. Avoid inhalation of material or combustion by-products.

**Special Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure. Avoid inhalation of material or combustion by-products.

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### Section 6 - ACCIDENTAL RELEASE MEASURES

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**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**

Intact cartridges do not pose a leak or spill hazard. Damaged cartridges may leak uncured ink. Stop leak if possible without personal risk. Reduce vapors with water spray. Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Flush spill area with water. Keep out of water supplies and sewers.

**Environmental Precautions**

Avoid release to the environment.

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### Section 7 - HANDLING AND STORAGE

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### Precautions for Safe Handling

Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.

### Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria.

Store in accordance with all current regulations and standards. Store between 15°C and 25°C. Shipment temperature (up to 5 weeks) is -20°C to 50°C. Store in a combustible storage area away from heat and open flame. Store in a cool, dry place. Avoid direct sunlight. Keep in the dark. Keep separated from incompatible substances.

### Incompatible Materials

None applicable.

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Component Exposure Limits

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

### EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures

There are no biological limit values for any of this product's components.

### ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

### Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Eye protection not required under normal conditions. Chemical goggles or safety glasses with side shields should be worn when handling a damaged cartridge.

#### Skin Protection

Protective clothing is not required under normal conditions. Wear neoprene or nitrile impervious gloves when handling damaged cartridge. Wash contaminated clothing before reuse.

#### Respiratory Protection

Respiratory protection is not generally needed when using this product.

#### Glove Recommendations

Wear neoprene or nitrile impervious gloves when handling damaged cartridge.

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## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Ink cartridge containing yellowish liquid Ink	<b>Physical State</b>	liquid
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<b>Odor</b>	characteristic odor	<b>Color</b>	yellowish
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	Not available	<b>Flash Point</b>	>100 °C (>212 °F)
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	Not available
<b>Water Solubility</b>	Not available	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	Not available	<b>Physical Form</b>	liquid
<b>Molecular Weight</b>	Not available		

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### Section 10 - STABILITY AND REACTIVITY

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#### Reactivity

Heating may cause a fire.

#### Chemical Stability

Unstable on exposure to light. Unstable on exposure to heat.

#### Possibility of Hazardous Reactions

Uncured ink will polymerize on exposure to light.

#### Conditions to Avoid

Avoid exposure to heat and light.

#### Incompatible Materials

Not applicable under normal conditions of use and storage.

#### Hazardous decomposition products

#### Combustion

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oxides of carbon

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## Section 11 - TOXICOLOGICAL INFORMATION

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### Information on Likely Routes of Exposure

#### Inhalation

May cause respiratory tract irritation.

#### Skin Contact

May cause skin irritation.

#### Eye Contact

May cause eye irritation.

#### Ingestion

No hazard is expected from the normal use of this product.

### Acute and Chronic Toxicity

No hazard is expected from the normal use of this product. While unlikely, uncured ink may leak from damaged ink cartridges and cause skin and eye irritation. Contact with skin may cause tingling sensation or skin irritation. Contact with eyes may cause eye irritation, inflammation, or eye damage.

### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

1,2-Propylene glycol (57-55-6)

Oral LD50 Rat 20 g/kg

Dermal LD50 Rabbit 20800 mg/kg

Polyethylene glycol (25322-68-3)

Oral LD50 Rat 22 g/kg

Dermal LD50 Rabbit >20 mL/kg

### Immediate Effects

May cause skin irritation. May cause eye irritation.

### Delayed Effects

No information on significant adverse effects.

### Irritation/Corrosivity Data

Contact with uncured ink may cause eye damage and skin irritation.

### Respiratory Sensitization

No data available for the mixture.

### Dermal Sensitization

No data available for the mixture.

### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

### Germ Cell Mutagenicity

No data available for the mixture.

### Tumorigenic Data

No data available

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**Reproductive Toxicity**

No data available for the mixture.

**Specific Target Organ Toxicity - Single Exposure**

No target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

No data available for the mixture.

**Medical Conditions Aggravated by Exposure**

No data available.

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### Section 12 - ECOLOGICAL INFORMATION

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**Component Analysis - Aquatic Toxicity**

1,2-Propylene glycol	57-55-6
Fish:	LC50 96 h Oncorhynchus mykiss 51600 mg/L [static]; LC50 96 h Oncorhynchus mykiss 41 - 47 mL/L [static]; LC50 96 h Pimephales promelas 51400 mg/L [static]; LC50 96 h Pimephales promelas 710 mg/L
Algae:	EC50 96 h Pseudokirchneriella subcapitata 19000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L [static] EPA

**Persistence and Degradability**

No information available for the mixture.

**Bioaccumulative Potential**

No information available for the mixture.

**Mobility**

No information available for the mixture.

**Other Toxicity**

No information available.

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### Section 13 - DISPOSAL CONSIDERATIONS

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**Disposal Methods**

Dispose in accordance with all applicable regulations. Hazardous Waste Number(s): 08 03 17\*. Refer to manufacturer/supplier for information on recovery/recycling. Do not landfill. Avoid discharge into drains or surface water. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

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## Section 14 - TRANSPORT INFORMATION

### US DOT Information:

No Classification assigned.

## Section 15 - REGULATORY INFORMATION

### U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

### SARA Section 311/312 (40 CFR 370 Subparts B and C)

**Acute Health:** Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactivity:** No

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
1,2-Propylene glycol	57-55-6	No	No	Yes	Yes	Yes
Polyethylene glycol	25322-68-3	No	No	Yes	No	No

### Not listed under California Proposition 65

### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

1,2-Propylene glycol	57-55-6
	1 %

### WHMIS Classification

This product is considered an article; therefore, there are no significant adverse effects when used as directed., Should the product break or leak, the contents of the cartridge would be classified as the following:, D2B.

### Component Analysis - Inventory

1,2-Propylene glycol (57-55-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

Polyethylene glycol (25322-68-3)



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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes

Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxy- (26403-58-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	NSL	No	No	No	Yes	No	No	No	Yes	Yes	No	Yes

Methanone, (1-hydroxycyclohexyl)phenyl- (947-19-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

### Section 16 - OTHER INFORMATION

#### NFPA Ratings

Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Summary of Changes

Updated: 06/29/2015

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of



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Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

### **Other Information**

#### **Disclaimer:**

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.