** *Section 1 - IDENTIFICATION* **

Material Name: OBJET SUPPORT SUP705

Chemical Family
- acrylic compounds

Recommended Use
- This product is a cartridge containing ink. Under normal conditions of use, the substance is released from a cartridge only inside an appropriate printing system, and therefore, exposure is limited.

Restrictions on Use
- None known.

Manufacturer Information
Objet, Inc.
5 Fortune Drive
Billerica, MA 01821
Phone: 1-877-489-9449
E-mail: info@object.com, www.object.com

24 Hour Emergency Telephone Service
+49 722 97772280 - Europe - Multi lingual response
+49 722 97772281 - Global - English Language response
+1 978 495 5580 - USA - Multi lingual response
+85 2 975 70887 - Asia Pacific - Multi lingual response
+61 2 8011 4763 - Australia - Multi lingual response
+86 15626070595 - China - Chinese response

** *Section 2 - HAZARDS IDENTIFICATION* **

Classification in accordance with 29 CFR 1910.1200
- Skin Corrosion / Irritation, Category 2
- Eye Damage / Irritation, Category 2A
- Sensitization - Skin, Category 1

GHS LABEL ELEMENTS
Symbol(s)

Signal Word
- WARNING

Hazard Statement(s)
- Causes skin irritation
- Causes serious eye irritation
Safety Data Sheet

Material Name OBJET SUPPORT SUP705

Precautionary Statement(s)

Prevention
Avoid breathing vapor or mist. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Contaminated work clothing should not be allowed out of the workplace.

Response
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. 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
Store in accordance with all current regulations and standards.

Disposal
Dispose in accordance with all applicable regulations.

Hazard(s) Not Otherwise Classified
None known.

* * Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* **

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
<td>Poly(oxy-1,2-ethanediyl), α-(1-oxo-2-propenyl)-ω-hydroxy-</td>
<td>&lt;50</td>
</tr>
<tr>
<td>57-55-6</td>
<td>1,2-Propylene glycol</td>
<td>&lt;35</td>
</tr>
<tr>
<td>25322-68-3</td>
<td>Polyethylene glycol</td>
<td>&lt;30</td>
</tr>
<tr>
<td>56-81-5</td>
<td>Glycerin</td>
<td>&lt;25</td>
</tr>
<tr>
<td>--</td>
<td>Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>52408-84-1</td>
<td>Acrylic acid ester</td>
<td>&lt;0.3</td>
</tr>
</tbody>
</table>

Additional Information
Under normal conditions of use, the substance is released from a cartridge only inside an appropriate printing system, and therefore, exposure is limited. The liquid within the cartridges is considered hazardous, and the SDS has been prepared in case of exposure to the liquid.

* * *Section 4 - FIRST AID MEASURES* **

Description of Necessary Measures

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. If skin irritation or rash occurs: 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, allergic skin reaction

Delayed
- allergic skin reaction

Indication of Immediate Medical Attention and Special Treatment
If adverse effects occur, treat symptomatically and supportively.

** **Section 5 - FIRE FIGHTING MEASURES** **

Suitable Extinguishing Media
Use extinguishing agents appropriate for surrounding fire. Class B fires: Use carbon dioxide (CO2), regular dry chemical (sodium bicarbonate), regular form (Aqueous Film Forming Foam-AFFF), or water spray to cool containers.

Unsuitable Extinguishing Media
None known.

Specific Hazards Arising from the Chemical
Slight fire hazard.

Hazardous Combustion Products
Combustion: oxides of carbon

Fire Fighting Measures
Move container 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.

** **Section 6 - ACCIDENTAL RELEASE MEASURES** **

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up
Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Flush area with water to remove trace residue.

** **Section 7 - HANDLING AND STORAGE** **

Precautions for Safe Handling
Avoid breathing vapor or mist. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.

Conditions for Safe Storage, including any Incompatibilities
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.

Incompatibilities Not applicable under normal conditions of use and storage.
**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

Component Exposure Limits

**Glycerin (56-81-5)**

**OSHA (US):** 15 mg/m³ TWA (mist, total particulate); 5 mg/m³ TWA (mist, respirable fraction)

**Mexico:** 10 mg/m³ TWA LMPE-PPT (mist)

Component Analysis

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

Appropriate Engineering Controls

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

Individual Protection Measures, such as Personal Protective Equipment

**Eyes/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.

**Glove Recommendations**

Wear neoprene or nitrile impervious gloves when handling damaged cartridge.

**Respiratory Protection**

Respiratory protection is not generally needed when using this product.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>yellowish</td>
</tr>
<tr>
<td>Odor:</td>
<td>characteristic odor</td>
</tr>
<tr>
<td>pH:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>94 °C</td>
</tr>
<tr>
<td>LEL:</td>
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<tr>
<td>UEL:</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not available</td>
</tr>
<tr>
<td>Density:</td>
<td>Not available</td>
</tr>
<tr>
<td>Water Solubility:</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto Ignition:</td>
<td>Not available</td>
</tr>
<tr>
<td>Volatility:</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Section 10 - STABILITY AND REACTIVITY**

**Reactivity**

Heating may cause a fire

**Chemical Stability**

Store between 15 C and 25 C. Uncured ink will polymerize on exposure to light or heat rendering the product unusable. However, this reaction is not considered hazardous.

**Possibility of Hazardous Reactions**

Uncured ink will polymerize on exposure to light.

**Conditions to Avoid**

Avoid exposure to heat or light.
Safety Data Sheet

Material Name OBJET SUPPORT SUP705

Incompatible Materials
Not applicable under normal conditions of use and storage.

Hazardous Decomposition
Combustion: oxides of carbon

* * *Section 11 - TOXICOLOGICAL INFORMATION* * *

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 and 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)
Dermal LD50 Rabbit 20800 mg/kg; Oral LD50 Rat 20000 mg/kg
Polyethylene glycol (25322-68-3)
Dermal LD50 Rabbit >20 mL/kg
Glycerin (56-81-5)
Dermal LD50 Rabbit >10 g/kg; Inhalation LC50 Rat >570 mg/m3 1 h

Acute Toxicity Level
1,2-Propylene glycol (57-55-6)
Non Toxic: dermal absorption, ingestion
Polyethylene glycol (25322-68-3)
Moderately Toxic: dermal absorption, ingestion
Non Toxic: ingestion
Glycerin (56-81-5)
Slightly Toxic: ingestion

Information on Likely Routes of Exposure
Inhalation
No information on significant adverse effects.

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

Skin Contact
May cause irritation. May cause an allergic skin reaction.

Eye Contact
May cause irritation.

Immediate Effects
Skin irritation, eye irritation, allergic skin reaction

Delayed Effects
Allergic reactions

Medical Conditions Aggravated by Exposure
None known.

Irritation/Corrosivity Data
Contact with uncured ink may cause eye irritation and skin irritation.

Respiratory Sensitization
No data available for the mixture.
Safety Data Sheet

Material Name OBJET SUPPORT SUP705

Dermal Sensitization
Component data indicate the substance is sensitizing. Uncured ink may cause an allergic response in sensitized individuals.

Carcinogenicity
Component Carcinogenicity
None of this product’s components are listed by ACGIH, IARC, NTP, DFG or OSHA.

Mutagenic Data
No data available for the mixture.

Reproductive Effects Data
No data available for the mixture.

Tumorigenic Data
No data available for the mixture.

Additional Data
Uncured ink may polymerize and adhere to tissue.

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.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Component Analysis - Aquatic Toxicity
Data may be available for the product or its components (if applicable, see below).

1,2-Propylene glycol (57-55-6)
Fish: 96 Hr LC50 Oncorhynchus mykiss: 51600 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 41 - 47 mL/L [static]; 96 Hr LC50 Pimephales promelas: 51400 mg/L [static]; 96 Hr LC50 Pimephales promelas: 710 mg/L
Algae: 96 Hr EC50 Pseudokirchneriella subcapitata: 19000 mg/L
Invertebrate: 48 Hr EC50 Daphnia magna: >1000 mg/L [Static]
Glycerin (56-81-5)
Fish: 96 Hr LC50 Oncorhynchus mykiss: 51 - 57 mL/L [static]

Persistence and Degradability
No data available.

Bioaccumulative Potential
No data available.

Mobility
No data available.

Other Ecological Information
No additional information is available.

* * *Section 13 - DISPOSAL CONSIDERATIONS* * *

Disposal Methods
Dispose in accordance with all applicable regulations.
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.
Safety Data Sheet

Material Name OBJET SUPPORT SUP705

Component Waste Numbers
No EPA Waste Numbers are applicable for this product's components.

** *Section 14 - TRANSPORT INFORMATION* **

US DOT Information
Not regulated as a hazardous material.

IMDG Information
Not regulated as dangerous goods.

** *Section 15 - REGULATORY INFORMATION* **

Component Analysis
U.S. Federal Regulations
None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA 311/312 Hazardous Categories
Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactive: No

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propylene glycol</td>
<td>57-55-6</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Polyethylene glycol</td>
<td>25322-68-3</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
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<td>56-81-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Not regulated under California Proposition 65

Canada Regulations
This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASSIFICATION: D2B.

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 fall under WHMIS criteria specified in the Controlled Products Regulations and present above the threshold limits listed on the IDL.

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

Component Analysis

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy-1,2-ethanediyl), α-(1-oxo-2-propenyl)-ω-hydroxy-</td>
<td>--</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
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<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Acrylic acid ester</td>
<td>52408-84-1</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
**Section 16 - OTHER INFORMATION**

Summary of Changes

New SDS: 1.0000

**NFPA Ratings:**
- Health: 2
- Fire: 1
- Reactivity: 0

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

**Key / Legend**
- ACGIH - American Conference of Governmental Industrial Hygienists
- CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
- DSL - Domestic Substances List
- EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances
- ELN (ELINCS) - European List of Notified Chemical Substances
- EPA - Environmental Protection Agency
- IARC - International Agency for Research on Cancer
- IMDG - International Maritime Dangerous Goods
- Kow - Octanol/water partition coefficient
- LEL - Lower Explosive Limit
- NFPA - National Fire Protection Agency
- NIOSH - National Institute for Occupational Safety and Health
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration
- SARA - Superfund Amendments and Reauthorization Act
- STEL - Short-term Exposure Limit
- TDG - Transportation of Dangerous Goods
- TSCA - Toxic Substances Control Act
- TWA - Time Weighted Average
- UEL - Upper Explosive Limit

**Other Information**

The information in this safety data sheet is based on data and samples provided to a third party SDS author. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned in this safety data sheet. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

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