



Material Safety Data Sheet

Material Name: OBJET SUPPORT CLEANING FLUIDE CLNS
OBJET MODEL CLEANING FLUIDE CLNM

ID: MSDS-001

OBJET SUPPORT CLEANING FLUIDE CLNS

OBJET MODEL CLEANING FLUIDE CLNM

*** Section 1 - Chemical Product and Company Identification ***

Product Use: Ink Cartridge - Professional Use

Chemical Name: Ink Cartridge - Professional Use

Manufacturer Information

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

24H 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 ***

Emergency Overview

This product is considered to be an article according to 29 CFR 1910.1200 (OSHA Hazard Communication Standard). While no specific safety information is required for articles, this Material Safety Data Sheet is provided for informational purposes.

As manufactured and supplied, the Objet toner cartridge is not hazardous under normal conditions of use. While unlikely, cleaning fluid may leak from damaged toner cartridges and cause eye irritation.

Potential Health Effects: Eyes

If fluid leaks, product may cause irritation to the eyes.

Potential Health Effects: Skin

If fluid leaks, product may cause irritation to the skin.

Potential Health Effects: Ingestion

Ingestion is not a likely exposure route. If leaking occurs, ingestion of large quantities is likely to cause nausea, vomiting and headache.

Potential Health Effects: Inhalation

Inhalation is not a likely exposure route. Inhalation expected to cause respiratory tract irritation and headache.

HMIS Ratings: Health: 1 Fire: 1 Physical Hazard: 0

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

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
25322-68-3	Polyethylene glycol	Approx. 100

Component Information/Information on Non-Hazardous Components

This product is considered to be an article according to 29 CFR 1910.1200 (OSHA Hazard Communication Standard).

While no specific safety information is required for articles, this Material Safety Data Sheet is provided for informational purposes.

***** Section 4 - First Aid Measures *******First Aid: Eyes**

If exposed to leaking fluid, flush eyes immediately with water for at least 15 minutes. Seek medical attention if irritation develops or persists.

First Aid: Skin

If exposed to leaking fluid, remove contaminated clothing. Immediately wash affected area with soap and water, and seek medical attention if irritation develops or persists.

First Aid: Ingestion

If leaking fluid is ingested, seek immediate medical advice. **DO NOT INDUCE VOMITING!**

First Aid: Inhalation

Remove source of contamination or move affected person to fresh air. Seek medical advice if irritation develops or persists.

***** Section 5 - Fire Fighting Measures *******General Fire Hazards**

See Section 9 for Flammability Properties.

Product is not considered combustible.

Hazardous Combustion Products

Combustion products include carbon dioxide, carbon monoxide, and low molecular weight hydrocarbons.

Extinguishing Media

Water spray, foam, BC dry powder, carbon dioxide.

Unsuitable Extinguishing Media

None identified.

Specific Hazards Arising From the Chemical

None identified.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

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

***** Section 6 - Accidental Release Measures *******Personal Precautions**

Refer to Section 8 of this MSDS.

Containment Procedures

Intact cartridges do not pose a leak or spill hazard. Damaged cartridges may leak cleaning fluid. Stop the flow of material, if this is without risk.

Environmental Precautions

Prevent release to soil and water. Avoid release to sanitary sewer system (consult local authorities for advice).

Clean-Up Procedures

Use an inert absorbent to take up liquid. Transfer slurry to a suitable container for disposal. Wash contaminated surfaces with soap and water.

Evacuation Procedures

Not ordinarily required.

Special Procedures

Contact local regulatory authorities for advice regarding disposal of cleanup materials.

***** Section 7 - Handling and Storage *******Handling Procedures**

For damaged cartridges, prevent eye and skin exposure, and do not breathe fumes or mists. Wash thoroughly after handling damaged cartridges.

Storage Procedures

Store in a cool (room temperature) dry area. Prevent exposure to sunlight.
Shipment temperature (up to 5 weeks) : -20°C to 50 °C (-4 to 122°F)

***** Section 8 - Exposure Controls / Personal Protection *******A: Component Exposure Limits**

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Not ordinarily required.

PERSONAL PROTECTIVE EQUIPMENT**Personal Protective Equipment: Eyes/Face**

Not ordinarily required. Chemical goggles or safety glasses with side shields should be worn when handling a damaged cartridge.

Personal Protective Equipment: Skin

Not ordinarily required. Wear impervious gloves when handling damaged cartridge. Wash contaminated clothing before re-use.

Personal Protective Equipment: Respiratory

Not ordinarily required.

Personal Protective Equipment: General

Use good industrial hygiene practices when using this product.

***** Section 9 - Physical & Chemical Properties *****

Appearance:	Yellow liquid	Odor:	Characteristic
Physical State:	Cleaning cartridge	pH:	Not Available
Vapor Pressure:	Not Available	Vapor Density:	>1
Boiling Point:	Not Available	Melting Point:	Not Available
Solubility (H2O):	Soluble	Specific Gravity:	Not Available
Evaporation Rate:	Not Available	Octanol/H2O Coeff.:	Not Available
Flash Point:	>212°F	Auto Ignition:	NA

***** Section 10 - Chemical Stability & Reactivity Information *******Chemical Stability**

Stable under normal conditions of use and storage.

Chemical Stability: Conditions to Avoid

Exposure to heat and light.

Incompatibility

Not applicable under normal conditions of use and storage.

Hazardous Decomposition

Combustion products include carbon dioxide, carbon monoxide, and low molecular weight hydrocarbons.

Possibility of Hazardous Reactions

Will not occur.

***** Section 11 - Toxicological Information *******Acute Dose Effects****A: General Product Information**

Under normal conditions of use, the likelihood of exposure to cleaning fluid is very small. Ingestion of large amounts of fluid may cause gastrointestinal irritation, with nausea, vomiting, and headache likely. Inhalation of large amounts of fluid (mist or fumes) may irritate the respiratory tract.

B: Component Analysis - LD50/LC50**Polyethylene glycol (25322-68-3)**

Oral LD50 Rat 28 g/kg; Dermal LD50 Rabbit >20 g/kg

Carcinogenicity**A: General Product Information**

No information available for product.

B: Component Carcinogenicity

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

***** Section 12 - Ecological Information *******Ecotoxicity****A: General Product Information**

No data available for product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity**Polyethylene glycol (25322-68-3)****Test & Species**

24 Hr LC50 Carassius auratus

>5000 mg/L

Conditions

PEG 200, 400, 800

Bioaccumulation & Accumulation

Due to solubility, bioaccumulation is not expected.

***** Section 13 - Disposal Considerations *******US EPA Waste Number & Descriptions****A: General Product Information**

No information available for the product.

B: Component Waste Numbers

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

Disposal Instructions

Spent or damaged cartridges should be recycled if possible. Consult with Local, State, or Federal Regulatory agencies for advice regarding recycling or environmentally sound disposal of this product.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

***** Section 14 - Transportation Information *******US DOT Information****Shipping Name:** Not regulated as a hazardous material for transportation.**TDG Information****Shipping Name:** Not regulated as dangerous goods.

***** Section 15 - Regulatory Information *******US Federal Regulations****A: General Product Information**

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier. All components listed in this product appear on the Canadian DSL/NDSL.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations**A: General Product Information**

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

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

Component	CAS	CA	MA	MN	NJ	PA	RI
Polyethylene glycol	25322-68-3	No	No	Yes	No	No	No

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information**A: General Product Information**

No information available for the product.

B: Component Analysis - Inventory

Component	CAS #	TSCA	EEC	DSL	NDSL
Polyethylene glycol	25322-68-3	Yes	No	Yes	No

***** Section 16 - Other Information *******Other Information**

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

MSDS History

New MSDS: January 03, 2010

Addition of 24H emergency telephone service: September 19, 2011



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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; 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; NJTSR = 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.

End of Sheet MSDS-001