

Issue Date 06-May-2015

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Version 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

Product Code 45084854

Product Name Jet Purge and Long Term Storage Fluid

Contains Propoxylated neopentyl glycol diacrylate

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Jet Purge and Long Term Storage Fluid

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Importer

EFI-B.V.
Boeing Avenue 201/207
1119PD Schiphol-Rijk
The Netherlands

Manufacturer

EFI-Inkjet Solutions
One VUTEk Place
Meredith, NH 03253
603-279-4635
USA

For further information, please contact

Email address ehs@efi.com

1.4. Emergency telephone number

Emergency Telephone Chemtrec +1-800-424-9300

Emergency Telephone - 24 Hour Emergency Phone Number
- Chemtrec International +1-703-527-3887

Europe	112
Netherlands	+31 (0)20 658 8000

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin sensitization	Category 1A
Chronic aquatic toxicity	Category 2

2.2. Label elements**Signal word**

Warning

Hazard Statements

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear eye protection/ face protection

P321 - Specific treatment (see .? on this label)

Precautionary Statements

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P321 - Specific treatment (see supplemental first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

P391 - Collect spillage

2.3. Other hazards**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Not Applicable

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Propoxylated neopentyl glycol diacrylate	617-546-6	84170-74-1	88-98	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)	01-2119970213-43-0000
Poly[oxy(methyl-1,2-ethanediy l)], a,a',a"-1,2,3-propanetriyltris[w- [(1-oxo-2-propenyl)oxy]- 2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(p henylmethylene)-(9CI)	500-114-5	52408-84-1	1-5	Skin Sens. 1B (H317) Eye Irrit. 2 (H319)	No data available
	429-460-4	7078-98-0	0.1-0.5	Skin Sens. 1 (H317)	No data available

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES**4.1. Description of first aid measures**

Inhalation	Remove to fresh air.
Skin Contact	Wash off immediately with plenty of water. If skin irritation persists, call a physician.
Eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (Get medical attention immediately if irritation persists.).
Ingestion	If swallowed, call a poison control center or physician immediately.

4.2. Most important symptoms and effects, both acute and delayed **Most important symptoms and effects, both acute and delayed**

Symptoms	None known
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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Section 5: FIRE FIGHTING MEASURES**5.1. Extinguishing media****Suitable Extinguishing Media**

Carbon dioxide (CO₂), Foam, Water, Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

5.3. Advice for firefighters

In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Avoid contact with skin, eyes or clothing.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Methods for containment

Dike to collect large liquid spills.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4. Reference to other sections**Other Information**

See Section 12: ECOLOGICAL INFORMATION.

Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8.

General Hygiene Considerations

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep away from heat. Incompatible with oxidizing agents. Keep tightly closed in a dry and cool place.

7.3. Specific end use(s)**Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Derived No Effect Level (DNEL) Propoxylated neopentyl glycol diacrylate. Inhalation: 2,9 mg/m³ (LT, SE). Ingestion: 1,67 mg/kg (LT, SE). Skin Contact: 1,67 mg/kg (LT, SE); 0,117 mg/cm² (LT, LE).

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ventilation systems.

Personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles), Avoid contact with eyes.

Hand Protection

All personal protection equipment should be chosen according to the CEN standards, Wear protective nitrile rubber gloves.

Body Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection

None under normal use conditions.

General Hygiene Considerations

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state liquid
Color clear

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
Melting point/freezing point		No information available
Boiling point / boiling range		No information available
Flash point	>100 °C	No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity	1.01	No information available
Water solubility		No information available
Solubility(ies)		No information available
Partition Coefficient (n-octanol/water)		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity		No information available

9.2. Other information

VOC Content (%) 0.05

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation No data available.

Eye contact No data available.

Skin Contact No data available.

Ingestion Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
Propoxylated neopentyl glycol diacrylate	(Rat) LD0 > 5,000 mg/kg. (No mortality)	(Rabbit) LD50 > 5,000 mg/kg (Rat) LD50 > 2,000 mg/kg.	(Rat) 4 h LC0 > 2 mg/l. (No mortality)

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT-single exposure No information available.

STOT-repeated exposure No information available.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Propoxylated neopentyl glycol diacrylate	Harmful. Pseudokirchneriella subcapitata (green algae) 72 h ErC50 (Growth inhibition) 11 mg/l	Toxic. Danio rerio (zebra fish) 96 h LC50 2.7 mg/l	Harmful. Daphnia magna (Water flea) 48 h EC50 37 mg/l

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****Waste from Residues / Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORT INFORMATION**Note:**

This material may be exempt from transport regulations if single or inner packaging is 5 liters or less.

IMDG

14.1 UN/ID No	UN3082
14.2 Proper shipping name	Environmentally Hazardous Substance, Liquid, n.o.s., (Propoxylated Neopentyl Glycol Diacrylate)
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Marine pollutant	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
14.6 Special Provisions	none
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

RID

14.1 UN/ID No	UN3082
14.2 Proper shipping name	Environmentally Hazardous Substance, Liquid, n.o.s., (Propoxylated Neopentyl Glycol Diacrylate)
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	none

ADR

14.1 UN/ID No	UN3082
14.2 Proper shipping name	Environmentally Hazardous Substance, Liquid, n.o.s., (Propoxylated Neopentyl Glycol Diacrylate)
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	none

ICAO (air)

14.1 UN/ID No	UN3082
14.2 Proper shipping name	Environmentally Hazardous Substance, Liquid, n.o.s., (Propoxylated Neopentyl Glycol Diacrylate)

14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	none

IATA

14.1 UN/ID No	UN3082
14.2 Proper shipping name	Environmentally Hazardous Substance, Liquid, n.o.s., (Propoxylated Neopentyl Glycol Diacrylate)
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	none

Section 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Legend

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

Issue Date 06-May-2015

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Revision Note Not Applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet