

SAFETY DATA SHEET

SDS Number:	262, REV R PITNEY BOWES INC.	Effective Date:	May 20, 2003
		Revised Date:	December 14, 2022
Product Identifier:	621-1, 765-9, 766-8, 772-6, 772-7, 793-5, 793-5P, SL-798-0, SL-870-1	Page:	1 of 10

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Reorder Numbers: 621-1, 765-9, 766-8, 772-6, 772-7, 793-5, 793-5P, SL-798-0, SL-870-1

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Ink cartridge

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer:

US Facility:
Pitney Bowes Inc.
27 Waterview Drive
Shelton, CT 006484
United States

UK Facility:
Langlands House
130 Sandringham Avenue
Harlow
CM19 5QA
United Kingdom

Canada Distributer:
Pitney Bowes Ltd.
5500 Explorer Drive
Mississauga, Ontario
L4W 5C7
Canada

Information Phone Number:
800-243-7824

+44(0) 8705 252 525

905-619-7861

E-mail: ehs@pb.com

SDS Website: www.pb.com/sds

1.4 Emergency Telephone Number

Emergency Spill Information	<i>203-922 5340 North America</i>	<i>00-1-203-922 5340 International</i>
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SDS Date of Preparation: December 14, 2022

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

US OSHA HAZCOM 2012 / CANADA WHIMS 2015 GHS Classification:

Physical:	Health:	Environmental
Not Classified	Specific Target Organ Toxicity –Repeat Exposure Category 2	Not Classified

CLP/GHS Classification (2020/878) / Japan GHS:

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Physical:	Health:	Environmental
Not Classified	Not Classified	Not Classified

2.2 Label Elements:

-US OSHA HAZCOM 2012 / CANADA WHIMS 2015

WARNING!



Hazard Phrases

H373	May cause damage to thyroid through prolonged or repeated exposure.
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Precautionary Phrases

P260	Do not breathe vapor or mist.
P314	Get medical attention if you feel unwell.
P501	Dispose of container and contents to approved disposal site in accordance with all local and national regulations.

-CLP (1272/2008):

Contains: 1,2-benzisothiazol-3(2H)-one

May produce an allergic reaction.

Contains less than 30% of components with unknown hazards to the aquatic environment.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Chemical Name	CAS# / MITI#	EINECS# / REACH Reg No.	GHS Classification Regulation (EC) No 2020/878	%
Water	7732-18-5 / 9-447	231-791-2	Not Applicable	60-80
Glycerin	56-81-5 / 2-242	200-289-5	Not Applicable	5-10
Ethylene urea	120-93-4 / 5-431	204-436-4	Eye Irrit. 2A (H319) STOT RE 2 (H373)	5-<10
Surfactant – Poly(oxy-1,2-ethanediyl), alpha, alpha’-(1,4-dimethyl-1,4-bis(2-methylpropyl)-	9014-85-1 /	500-022-5	Eye Dam. 1 (H318) Skin Sens. 1B (H317) Aqua. Chron. 3 (H412)	1-5

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2-butyn-1,4-diyl)bis(omega-hydroxy)				
Dye – Hexasodium 2,2'-((6-morpholino-1,3,5-triazine-2,4-diyl)bis(imino(2-sulphonato-4,1-phenylene)vinylene(3-sulphonato-4,1-phenylene)))bis(2H-naphtho(1,2-d)triazole-5-sulphonate)	73398-48-8 /	277-447-5	Eye Dam. 1 (H318)	1-5

See Section 16 for further information on GHS Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eyes: Flush with plenty of running cold water for several minutes, holding eyelids open to assure thorough rinsing. Get medical attention if irritation develops or persists.

Skin: Wash with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops or persists.

Inhalation: Remove to fresh air. Get medical attention if irritation develops or persists.

Ingestion: If large amounts are swallowed, do not induce vomiting unless directed by a doctor or physician. Get medical attention.

Notes to Physicians: Treat symptomatically.

4.2 Most Important symptoms and effects, both acute and delayed: May cause mild eye and skin irritation. Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, head ache and nausea. Ingestion may cause abdominal pain, diarrhea, dizziness, drowsiness, headache, and nausea.

4.3 Indication of any immediate medical attention and special treatment needed:
Immediate medical treatment should not be required.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use water spray, carbon dioxide, dry chemical, or foam to extinguish fire.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None known.

Hazardous Decomposition Products: Carbon oxides.

5.3 Advice for Fire-Fighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with eyes, skin, and clothing.

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6.2 Environmental Precautions:

It is recommended to keep away from drains, surface, and ground water.

6.3 Methods and Material for Containment and Cleaning Up:

Large Spill: Ventilate the area. Contain spill and absorb with an inert absorbent. Place in an appropriate container for proper disposal.

Small Spill: Wipe up with absorbent material and place into a suitable container for disposal. Clean area with a damp cloth to remove residue.

6.4 Reference to Other Sections:

Refer to Section 8 for protective equipment and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid contact with eyes, skin, and clothing. Wash thoroughly after use.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Keep away from excessive heat and cold. Keep out of the reach of children.

7.3 Specific end use(s):

Ink for Postage Meter

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Water	None Established
Glycerin United States	15 mg/m ³ TWA (Total dust) OSHA PEL 5 mg/m ³ TWA (Respirable fraction) OSHA PEL
Australia	10 mg/m ³ TWA
Germany	200 mg/m ³ TWA (Inhalable); 400 mg/m ³ STEL (Inhalable)
Spain	10 mg/m ³ TWA
United Kingdom	10 mg/m ³ TWA
Ethylene urea	None Established
Surfactant – Poly(oxy-1,2-ethanediyl), alpha, alpha'-(1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl)bis(omega-hydroxy)	None Established
Dye – Hexasodium 2,2'-((6-morpholino-1,3,5-triazine-2,4-diyl)bis(imino(2-sulphonato-4,1-phenylene)vinylene(3-sulphonato-4,1-phenylene)))bis(2H-naphtho(1,2-d)triazole-5-sulphonate)	None Established

Refer to local regulations for occupational exposure limits not listed above.

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8.2 Exposure Controls:

Engineering Controls: General ventilation sufficient to keep exposure below exposure limits.

Respiratory Protection: None normally required.

Skin Protection: None normally required. Wear rubber gloves if needed to avoid skin contact.

Eye Protection: None normally required. Wear safety glasses if eye contact is possible.

Other: Not required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Red liquid.	Vapor Density: Not determined
Color: Red	Physical State: Liquid
Odor: Slight	Specific Gravity: 1.00-1.10
Odor Threshold: Not determined	Water Solubility: Miscible
pH: 8-9	Octanol/Water Partition Coefficient: Not determined
Melting Point/Freezing Point: Not determined	Autoignition Temperature: Not determined
Boiling Point: Not determined	Decomposition Temperature: Not determined
Flash Point: None	Kinematic Viscosity: Not determined
Evaporation Rate: Not determined	Explosion Properties: Not determined
Flammability: Not applicable	Oxidizing Properties: Not determined
Flammable Limits: LEL: Not applicable UEL: Not applicable	VOC: Not determined
Vapor Pressure: Not determined	Relative Vapor Pressure @20°C (Air = 1) : Not determined
Particle Characteristics: Not applicable	

9.2 Other Information:

9.2.1 Properties, Safety Characteristics and Test Results for Physical Hazards:

Dynamic Viscosity: 1-5 (mPa s)

9.2.2 Other Safety Characteristics: None determined.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Not reactive under normal conditions of use.

10.2 Chemical Stability:

Stable.

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10.3 Possibility of Hazardous Reactions:

None known.

10.4 Conditions to Avoid:

None known.

10.5 Incompatible Materials:

Avoid strong oxidizers, acids, and strong bases.

10.6 Hazardous Decomposition Products:

Carbon oxides, and Ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Eyes: May cause mild eye irritation.

Skin: May cause mild skin irritation.

Ingestion: Swallowing large amounts may cause abdominal pain, headache, dizziness, drowsiness, nausea, vomiting and diarrhea.

Inhalation: No adverse effects expected under normal use. High vapor concentrations due to heating may cause upper respiratory tract irritation with possible headache, dizziness, drowsiness, and nausea.

Chronic Health Effects: Ethylene urea may cause damage to thyroid through prolonged or repeated exposure.

Acute Toxicity Values:

Product	Not acutely toxic		
Water	Not acutely toxic		
Glycerin	LD50: 6,500 mg/kg	Rat	Oral
	LC50: > 570 mg/m ³ / 1 hr	Rat	Inhalation
Ethylene urea	LD50: >5,010 mg/kg	Rat	Oral
	LC50: >2,000 mg/kg	Rat	Dermal
Poly (oxy-1,2-ethanediyl),.alpha,.alpha. '-[1,4-dimethyl- 1,4-bis(2-methylpropyl)-2- butyne-1,4-diyl]bis[. omega.-hydroxy-:	LD50: 200-300 g/kg	Rat	Oral
	LC50: >2,000 mg/kg	Rat	Dermal
2H-Naphtho[1,2-d]triazole-5-sulfonic acid, 2,2'-[[6-(4-morpholinyl)-1,3,5-triazine-2,4-diy]]bis [imino(2-sulfo-4,1-phenylene)-2,1-ethenediy(3-sulfo-4,1-phenylene)]bis-, hexasodium salt:	No toxicity data available.		

Eye Irritation/ Damage: This product is not expected to cause eye irritation or damage based on animal studies.

Eye: Slightly-irritating (rabbit) OECD Guidelines No.405 (2002), 92/69/EEC Method B5

Skin Irritation / Corrosivity: This product is not expected to cause skin irritation or corrosion based on animal studies.

Skin: Non-irritant (rabbit) OECD Guidelines No.404 (2002), 92/69/EEC Method B4

Sensitization: This product is not classified as a sensitizer based on animal studies.

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Non-sensitizer (guinea pig) OECD Guidelines No.406 (1992), 96/54/EC Method B42.

Specific Target Organ Toxicity:

Single Exposure: No data available.

Repeat Exposure: Ethylene urea may cause damage to thyroid through prolonged or repeated exposure. Prolonged intentional inhalation may result in respiratory tract irritation.

Carcinogen Status: None of the components of this product are classified as carcinogens by IARC, OSHA, NTP, ACGIH, or the EU CLP.

Germ Cell Mutagenicity: This product is not a mutagen. AMES test: Negative (S.typhimurium & E. Coli)

Toxicity for Reproduction: This product is not classified as a reproductive hazard.

Aspiration Hazard: Not an aspiration hazard.

11.2 Information on Other Hazards

11.2.1 Endocrine Disrupting Properties: None known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available for product.

Glycerol: LC50 Daphnia magna (Water flea) >10000 mg/L/ 24 hr.

LC50 Goldfish >5000 mg/L/ 24 hr.

Ethylene urea: LC50 Oncorhynchus mykiss >122 mg/L/ 96 hr.

LC50 Daphnia magna (Water flea) 5,600 mg/L/ 48 hr.

Poly (oxy-1,2-ethanediyl),.alpha,.alpha. '-[1,4-dimethyl- 1,4-bis(2-methylpropyl)-2- butyne-1,4-diyl]bis[. omega.-hydroxy-: LC50 Cyprinus carpio 42 mg/L/ 96 hr.

LC50 Daphnia magna (Water flea) 91 mg/L/ 48 hr.

12.2 Persistence and Degradability:

No data available for product.

Glycerol: Biodegradation rate constants of 0.258/day and 0.200/day in respirometric test systems employing activated sludge have been reported, corresponding to 68% and 78% degradation, respectively.

Ethylene urea: Readily biodegradable

Poly(oxy-1,2-ethanediyl),.alpha,.alpha. '-[1,4-dimethyl- 1,4-bis(2-methylpropyl)-2- butyne-1,4-diyl]bis[. omega.-hydroxy-: Not readily bio-degradable.

12.3 Bioaccumulative Potential:

No data available for product.

Glycerol: An estimated BCF of 3 was calculated in fish for glycerin, using a log Kow of -1.76 and a regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low.

Poly(oxy-1,2-ethanediyl),.alpha,.alpha. '-[1,4-dimethyl- 1,4-bis(2-methylpropyl)-2- butyne-1,4-diyl]bis[. omega.-hydroxy-: Not a high bio-concentration potential.

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12.4 Mobility in Soil:

No data available for product.

Glycerol: is expected to have very high mobility in soil

12.5 Results of PBT and vPvB Assessment:

Not required.

12.6 Endocrine disrupting Properties:

None known

12.7 Other Adverse Effects:

None

SECTION 13: DISPOSAL INFORMATION

13.1 Waste Treatment Methods

Dispose in accordance with local, state, or provincial and federal or national regulations.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not regulated for transport	None	None	No
EU ADR/RID	None	Not regulated for transport	None	None	No
IATA:	None	Not regulated for transport	None	None	No
IMDG	None	Not regulated for transport	None	None	No

14.6 Special Precautions for User:

None

14.7 Transport in Bulk According to IMO Instruments:

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

International Inventories:

US EPA TSCA Inventory: All of the components are listed on the EPA TSCA inventory.

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List (DSL). Ink cartridges are exempt.

Japanese Regulations: All of the ingredients of this product are listed on the Japanese Existing and New Chemical Substances Inventory (ENCS). Ink cartridges are exempt.

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Philippine Regulations: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

New Zealand Regulations: All of the components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC). Ink cartridges are exempt.

Korean Regulations: All of the components of this product are listed on the Korean Existing Chemical List (KECL).

Taiwan Regulations: All of the components of this product are listed on the Taiwan Chemical Substance Inventory (TCSI).

U.S. REGULATIONS

CERCLA: Spills of this product are required to be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state, and local regulations.

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 Hazard Classification: As per OSHA GHS classification in Section 2 of this SDS.

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: None

California Proposition 65: This product contains the following chemicals which are known to the State of California to cause cancer, reproductive toxicity, or birth defects: None.

INTERNATIONAL REGULATIONS

German WGK: Not determined.

Other EU Regulations: This product is classified and labeled in accordance with EC CLP. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 (REACH). Classification is based on either test data or the calculation method.

JAPAN:

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.: Not regulated.

Japan ISHA: Not listed.

Poisonous and Deleterious Substances Control Act: Not listed.

Air Pollution Control Act: Not listed.

Water Pollution Prevention Act: Not listed.

Soil Contamination Countermeasures Act: Not listed.

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (PRTR-SDS Law): Not listed.

15.2 Chemical Safety Assessment:

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Not required

SECTION 16: OTHER INFORMATION

NFPA Codes: Health: 1 Fire: 0 Instability: 0
HIMS Codes: Health: 1* Fire: 0 Physical Hazard: 0
*Chronic Health Hazard.

GHS Phrases for Reference (See Section 2 and 3):

Aqua. Chron. 3 – Aqua Chronic Toxicity Category 3
Eye Dam. 1 – Eye Damage Category 1
Eye Irrit. 2A – Eye Irritation Category 2A
STOT RE 2 – Specific Target Organ Toxicity-Repeat Exposure Category 2
H318 Causes serious eye damage.
H319 Causes serious eye irritation
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

This SDS conforms to Regulation (EU) No. 1907/2006 and 2020/878, US OSHA Hazcom 2012 (29 CFR1910.1200), Canada WHMIS 2015, and the GHS. This SDS conforms to the Japanese GHS criteria.

Date of current revision: December 14, 2022
Revision Summary: Change to format for (EU) No. 2020/878, US OSHA Hazcom (29 CFR1910.1200), Canada WHMIS, and to conform to the Japanese GHS criteria. Change to all sections.

Date of previous revision: February 12, 2020

Gensuite Approval Date:
SDS Prepared By: Chemical Review Team (CRT)