

SAFETY DATA SHEET

SDS Number:	284, REV I PITNEY BOWES INC.	Effective Date:	August 5, 2008
		Revised Date:	September 04, 2019
Product Identifier:	620-1SB, 767-8SB, 793-5SB, 765-9SB, 772-1SB, 772-2SB, 0080T156, SL-798-0SB	Page:	1 of 9

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

1.1 Product Identifier

Reorder Numbers: 620-1SB, 767-8SB, 793-5SB, 765-9SB, 772-1SB, 772-2SB, 0080T156, SL-798-0SB

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:
 Building 5 Trident Place
 Hatfield Business Park
 Mosquito Way
 Hatfield
 Hertfordshire, AL10 9UJ
 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	203-922 5340 <i>North America</i>	00-1-203-922 5340 <i>International</i>
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SDS Date of Preparation: September 04, 2019

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008):

Physical:	Health:	Environmental
Not Classified	Reproductive Toxicity Category 1B	Not Classified

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2.2 Label Elements:

DANGER!



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

May produce an allergic reaction.

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

Hazard Phrases

H360	May damage fertility or the unborn child.
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Precautionary Phrases*

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P308 + P313	IF exposed or concerned: Get medical attention.
P405	Store locked up.
P501	Dispose of container and contents to approved disposal site in accordance with all local and national regulations.

*Note: The GHS precautionary phrases listed here will not appear on the product packaging label. These statements are not applicable to the product as sold.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Chemical Name	CAS#	EINECS#	GHS Classification Regulation (EC) No 1272/2008	%
Water	7732-18-5	231-791-2	Not Classified	60-80
Glycerin	56-81-5	200-289-5	Not Classified	10-15
2-Pyrrolidone	616-45-5	210-483-1	Eye Irrit. 2A (H319) Repro. Tox 1B (H360)	5-10
Copper phthalocyanine, sulfamoyl sulfo derivs, sodium salts	90295-11-7	291-001-7	Not Classified	1-5

See Section 16 for further information on GHS Classification.

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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. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. 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, head ache and nausea. May damage fertility or the unborn child.

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.

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: 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.

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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
2-Pyrrolidone	None Established
Copper phthalocyanine, sulfamoyl sulfo derivs, sodium salts (As copper dusts)	
United States	1 mg/m ³ TWA ACGIH TLV 1 mg/m ³ TWA OSHA PEL
Australia	1 mg/m ³ TWA
Germany	0.01 mg/m ³ TWA (Inhalable); 0.02 mg/m ³ STEL (Inhalable)
Spain	5 mg/m ³ TWA
United Kingdom	1 mg/m ³ TWA; 2 mg/m ³ STEL

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

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.

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Other: Not required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Blue liquid.	Vapor Density: Not determined
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: > 93.0°C (>199.4°F) (CC)	Viscosity: 1-5 (mPa s)
Evaporation Rate: Not determined	Explosion Properties: Not determined
Flammable Limits: LEL: Not applicable UEL: Not applicable	Oxidizing Properties: Not determined
Vapor Pressure: Not determined	VOC: Not determined

9.2 Other Information:

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Not reactive under normal conditions of use.

10.2 Chemical Stability:

Stable.

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.

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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.

Acute Toxicity Values:

Product	Not acutely toxic		
Water	Not acutely toxic		
Glycerin	LD50: 6,500 mg/kg LC50: > 570 mg/m ³ / 1 hr.	Rat Rat	Oral Inhalation
2-Pyrrolidone	LD50: >5,000 mg/kg LD50: >2,000 mg/kg	Rat Rabbit	Oral Dermal
Copper phthalocyanine, sulfamoyl sulfo derivs, sodium salts:			
	Not acutely toxic		

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

Eye: Minimal irritant (rabbit) OECD Guidelines No.405 (2002), 2004/73/EC Method B5

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

Skin: Non-irritant (rabbit) OECD Guidelines No.404 (2002), 2004/73/EC Method B4

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

Non-sensitizer (mouse) OECD Guidelines No.429 (2002), 2004/73/EC Method B42

Specific Target Organ Toxicity:

Single Exposure: No data available.

Repeat 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: Contains 2-Pyrrolidone which may damage fertility or the unborn child.

Aspiration Hazard: Not an aspiration hazard.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available for product.
 Glycerin: LC50 Daphnia magna (Water flea) >10000 mg/L/ 24 hr;
 LC50 Goldfish >5000 mg/L/ 24 hr
 2-Pyrrolidone: EC50 Daphnia pulex (Water flea) 13.21 mg/L/ 48 hr

12.2 Persistence and Degradability:

No data available for product.
 Glycerin: Readily biodegradable.
 2-Pyrrolidone: Readily biodegradable.

12.3 Bioaccumulative Potential:

No data available for product.
 Glycerin: 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.
 2-Pyrrolidone: BCF 3.16 the potential for bioconcentration in aquatic organisms is low.

12.4 Mobility in Soil:

No data available for product.
 Glycerin: Is expected to have very high mobility in soil

12.5 Results of PBT and vPvB Assessment:

Not required.

12.6 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

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IMDG	None	Not regulated for transport	None	None	No
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14.6 Special Precautions for User:

None

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:

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.

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

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.

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: Copper phthalocyanine, sulfamoyl sulfo derivs, sodium salts (Copper compounds 1-5%)

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.

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15.2 Chemical Safety Assessment:
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):

Eye Irrit. 2A – Eye Irritation Category 2A
Repro. Tox 1B - Reproductive Toxicity Category 1B
H319 Causes serious eye irritation
H360 May damage fertility or the unborn child.

Date of current revision:

September 04, 2019

Revision Summary:

Classification change and vendor material review. Change to all sections.
Emergency phone number updated in November 2020

Date of previous revision: June 28, 2017

Gensuite Approval Date:

May 8, 2019

SDS Prepared By:

Chemical Review Team (CRT)