

SAFETY DATA SHEET

SDS Number:	412, REV A PITNEY BOWES, INC.	Effective Date:	February 23, 2023
Product Name:	Black Ink (3UB41 Series)	Revised Date:	N/A
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name: Black Ink (3UB41 Series)
Reorder Number: SL-7741

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

Product Use: Inkjet printing

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 800-424-9300 00-1-703-527-3887
North America *International (collect call)*

SDS Date of Preparation: February 23, 2023

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

-US OSHA Hazcom 2012: (29 CFR1910.1200) / Canada WHMIS 2015 /
CLP/GHS Classification (1272/2008):

Physical:	Health:	Environmental
Not Classified	Skin Sensitization Category 1A	Not Classified

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2.2 Label Elements:

WARNING!

Contains 1,2-Benzisothiazolin-3-one; 2-Methyl-2H-isothiazol-3-one.



Hazard Phrases

H317	May cause an allergic skin reaction.
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Precautionary Phrases

P261	Avoid breathing mist or spray.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of container and contents to approved disposal site in accordance with all local and national regulations.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture:

Chemical Name	CAS#	EINECS# / REACH Reg No.	GHS Classification Regulation (EC) No 1272/2008	%
Water	7732-18-5	231-791-2	Not Applicable	75-85
Cyclo Amide	Proprietary	Proprietary	Not Applicable	<15
Black Pigment*	Proprietary	Proprietary	Not Applicable	<2.5
1,2-Benzisothiazolin-3-one	2634-33-5	220-120-9 / 01-2120761540- 60-XXXX	Acute Tox. 4 (H302) ATE 670 mg/kg Skin Irrit. 2 (H315) Skin Sens. 1 (H317) SCL $\geq$ 0.05% Eye Dam. 1 (H318) Acute Aquatic Tox 1 (H400) (M factor 10) Chronic Aquatic Tox. 2 (H411)	<0.1
2-methyl-2h-isothiazol-3-one	2682-20-4	220-239-6 / 01-2120764690- 50-XXXX	Acute Tox. 2 (H330) ATE 0.11 mg/l Acute Tox. 3 (H301) ATE 120 mg/kg (H311) ATE 242 mg/kg Skin Corr. 1B (H314) Skin Sens. 1A (H317) SCL $\geq$ 0.002% Acute Aquatic Tox 1 (H400) (M factor 10) Chronic Aquatic Tox. 1 (H410)	<0.1

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			Resp. Corr. (EUH071)	
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* The black pigment in this product contains carbon black (CAS 1333-86-4). The carbon black in this pigment is inextricably bound within its chemical matrix and will not present a risk of exposure.

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, 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 or rash 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 an allergic skin reaction. May cause mild eye and skin irritation.

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.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None known.

Hazardous Decomposition Products: Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons., fluorinated hydrocarbons and hydrogen fluoride.

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 and skin.

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: Not sold in large quantities.

Small Spill: Eliminate ignition sources and ventilate the area. Soak up any small amounts with inert absorbent material.

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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 out of the reach of children.

7.3 Specific end use(s):

Ink for Postage Meters

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Water	None Established
2,4,7,9-Tetramethyl-5-decyne-4,7-diol	None Established
Black Pigment* as Carbon Black	3.5 mg/m ³ TWA OSHA PEL 3.5 mg/m ³ TWA ACGIH TLV 3.5 mg/m ³ TWA, 7 mg/m ³ STEL- UK WEL 3.5 mg/m ³ TWA – Spain OEL
1,2-Benzisothiazolin-3-one	None Established
2-methyl-2h-isothiazol-3-one	0.2 mg/m ³ TWA, 0.4 mg/m ³ STEL (Inhalable) DFG MAK

* The black pigment in this product contains carbon black (CAS 1333-86-4). The carbon black in this pigment is inextricably bound within its chemical matrix and will not present a risk of exposure.

8.2 Exposure Controls:

Engineering Controls: Use in a well-ventilated area.

Respiratory Protection: None 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: Black liquid	Vapor Density: Not determined
Color: Black	Physical State: Liquid
Odor: Not determined	Relative Density: 1 – 1.1
Odor Threshold: Not determined	Water Solubility: Not determined
pH: 8 - 10	Octanol/Water Partition Coefficient: Not determined
Melting Point/Freezing Point:	Autoignition Temperature:

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Not determined	Not determined
Boiling Point: Not determined	Decomposition Temperature: Not determined
Flash Point: >230.0°F (>110.0°C)	Kinematic Viscosity: Not determined
Evaporation Rate: Not determined	Particle Characteristics: Not applicable
Flammable Limits: LEL: Not determined UEL: Not determined	Flammability: Not applicable
Vapor Pressure: Not determined	Relative Vapor Pressure @20°C: (Air = 1) Not determined

9.2.1 Properties, Safety Characteristics and Test Results for Physical Hazards: None determined.

Explosion Properties: Not determined	Oxidizing Properties: Not determined
VOC: <180 g/L	

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 under normal conditions of use. When heated, this product may produce flammable acetylene fumes.

10.3 Possibility of Hazardous Reactions:

None known

10.4 Conditions to Avoid:

Excessive heat.

10.5 Incompatible Materials:

Strong oxidizing materials and bases.

10.6 Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, nitrogen oxides and low molecular weight hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Eyes: May cause mild eye irritation. Direct contact may stain tissues.

Skin: May cause skin irritation. May stain tissues.

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 coughing, sore throat, headache, dizziness, drowsiness and vomiting.

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Acute Toxicity Values:

Product ATE:	LD50: >5,000 mg/kg LD50: >2,000 mg/kg		Oral Dermal
Water	Not classified as acutely toxic		
Cyclo Amide	Not classified as acutely toxic		
Black Pigment	LD50: >10,000 mg/kg	Rat	Oral
1,2-Benzisothiazolin-3-one	LD50: 670 mg/kg LD50: >2,000 mg/kg	Rat Rat	Oral Dermal
2-methyl-2h-isothiazol-3-one	LD50: 120 mg/kg LD50: 242 mg/kg LC50: 0.11 mg/l/ 4 hr.	Rat Rat Rat	Oral Dermal Inhalation

Irritation: Based on available data, the classification criteria are not met.

Corrosivity: Based on available data, the classification criteria are not met.

Sensitization: Contains 1,2-Benzisothiazolin-3-one, and 2-Methyl-2H-isothiazol-3-one which may produce an allergic reaction in sensitized individuals. None of the components are respiratory sensitizers.

Specific Target Organ Toxicity:

Single Exposure: Based on available data, the classification criteria are not met.

Repeat Exposure: Based on available data, the classification criteria are not met.

Carcinogen Status: Based on available data, the classification criteria are not met. IARC has classified carbon black as a group 2B carcinogen (possible human carcinogen). The carbon black in this product is inextricably bound within the chemical matrix and will not present a risk of exposure. None of the other components of this product are classified as carcinogens by IARC, OSHA, NTP, ACGIH, or the EU CLP.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

Toxicity for Reproduction: Based on available data, the classification criteria are not met.

Aspiration Hazard: Based on available data, the classification criteria are not met.

11.2 Information on Other Hazards

11.2.1 Endocrine Disrupting Properties: None known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Product: 96 hr LC50 fathead minnow >750 mg/L

2-methyl-2h-isothiazol-3-one: LC50/96 hr; Oncorhynchus mykiss 4.77 mg/L;
EC50/ 48 hr Water flea (Daphnia magna) 0.934 mg/L

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EC50/ 72 hr Marine water algae 0.072 mg/L
 1,2-Benzisothiazolin-3-one: LC50/96 hr; Oncorhynchus mykiss 1.6 mg/L;
 EC50/ 48 hr Water flea (Daphnia magna) 0.934 mg/L
 EC50/ 72 hr Pseudokirchneriella subcapitata 70 ug/L

12.2 Persistence and Degradability:

1,2-Benzisothiazolin-3-one: Not readily biodegradable
 2-methyl-2h-isothiazol-3-one: Not readily biodegradable

12.3 Bioaccumulative Potential:

1,2-Benzisothiazolin-3-one: 6.62 BCF
 2-methyl-2h-isothiazol-3-one: 5.75 BCF

12.4 Mobility in Soil:

No data available for product.

12.5 Results of PBT and vPvB Assessment:

Product does not meet the criteria for PBT or vPvB.

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:

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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 or exempt on the EPA TSCA inventory.

Canadian Environmental Protection Act: All of the components are listed on the Canadian DSL or NDSL.

Australian Regulations: All of the components are listed on the Australian AICS inventory.

Chinese Regulations: All of the components are listed on the Inventory of Existing Chemical Substances of China (IECSC).

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

Philippine Regulations: This product is an article and not subject to chemical notification requirements.

Japanese Regulations: This product is an article and not subject to chemical notification requirements.

New Zealand Regulations: All of the components are listed on the New Zealand inventory.

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

U.S. REGULATIONS

CERCLA: Spills of this product do not have a reportable quantity (RQ) required to be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills as 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: Classified as per 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 Carbon Black which is known to the state of California to cause cancer. However, the Carbon Black is inextricably bound within the chemical matrix of the product and no exposure can occur.

INTERNATIONAL REGULATIONS

German WGK: Not determined.

Other EU Regulations: This product is classified and labeled in accordance with EC CLP following the rules on mixture classification. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 (REACH), (EC)1272/2008 and Regulation (EC) 2020/878.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA: Not listed.

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization: Not listed.

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Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended: Not listed.

15.2 Chemical Safety Assessment:

Not required

SECTION 16: OTHER INFORMATION

NFPA Codes:	Health: 2	Fire: 0	Instability: 0
HIMS Codes:	Health: 2	Fire: 0	Physical Hazard: 0

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

Acute Aqua. Tox. 1 – Acute Aquatic Toxicity Category 1
Acute Tox. 2 – Acute Toxicity Category 2
Acute Tox. 3 - Acute Toxicity Category 3
Acute Tox. 4 - Acute Toxicity Category 4
Chron. Aqua. Tox. 1 - Chronic Aquatic Toxicity Category 1
Chron. Aqua. Tox. 2 - Chronic Aquatic Toxicity Category 2
Eye Dam. 1 – Eye Damage Category 1
Resp. Corr. - Corrosive to the respiratory tract.
Skin Corr. 1B – Skin Corrosion Category 1B
Skin Irrit. 2 – Skin Irritation Category 2
Skin Sens. 1 – Skin Sensitizer Category 1
Skin Sens. 1A – Skin Sensitizer Category 1A
H301 Toxic if swallowed.
H302 Harmful if swallowed
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H330 Fatal if inhaled.
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects
EUH071: Corrosive to the respiratory tract.

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

Date of current revision:	February 23, 2023
Revision Summary:	New SDS
Date of previous revision:	N/A