

SAFETY DATA SHEET

SDS Number:	323, REV A BlueCrest	Effective Date:	December 27, 2018
Product Name:	Yellow Ink and Print Head (CG357A Series, CG362A Series)	Revised Date:	New SDS
		Page:	1 of 8

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

1.1 Product Identifier

Trade Name: Yellow Ink and Print Head (CG357A Series, CG362A Series)
Reorder Number: 48F-8, 48F-4

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

Yellow Ink and Print Head

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: **US Facility:**
BlueCrest
37 Executive Drive
Danbury, CT 06810
United States

Information Phone Number: 877-748-6391
E-mail: ehs@pb.com

1.4 Emergency Telephone Number

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

SDS Date of Preparation: December 27, 2018

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008): Not classified as hazardous.

2.2 Label Elements:

Hazard Pictograms: None required
Signal Word: None required.
Hazard Statements: None required
Precautionary Statements: None required

Supplemental label information: Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

2.3 Other Hazards: None

SAFETY DATA SHEET

SDS Number:	323, REV A BlueCrest	Effective Date:	December 27, 2018
Product Name:	Yellow Ink and Print Head (CG357A Series, CG362A Series)	Revised Date:	New SDS
		Page:	2 of 8

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical Name	CAS# EC No.	REACH Reg. No.	GHS Classification Regulation (EC) No 1272/2008	%
2-Pyrrolidone	616-45-5 210-483-1	01-2119475471-37-XXXX	Eye Irrit. 2A (H319)	<7.5
1,2-Benzisothiazolin-3-one	2634-33-5 220-120-9	-	Acute Tox 4 (H302), Skin Irrit 2 (H315), Skin Sens 1 (H317), Eye Dam. 1 (H318), Aquatic Acute 1 (H400)	
Water and other non-hazardous ingredients	Mixture	Mixture	Not classified as hazardous	>90

See Section 16 for further information on GHS Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eyes: Flush eyes 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.

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 eye and skin irritation. Swallowing large amounts may cause gastrointestinal irritation with nausea, vomiting and diarrhea.

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

5.3 Advice for Fire-Fighters:

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

SAFETY DATA SHEET

SDS Number:	323, REV A BlueCrest	Effective Date:	December 27, 2018
Product Name:	Yellow Ink and Print Head (CG357A Series, CG362A Series)	Revised Date:	New SDS
		Page:	3 of 8

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: Not sold in large quantities.

Small Spill: Wipe up with absorbent material and place into a suitable container for disposal. Wipe 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 handling.

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):

Black Ink and Print Head

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
2-Pyrrolidone	None Established
1,2-Benzisothiazolin-3-one	None Established

Derived no effect levels (DNELs)

Component	Exposure Group	Route	Value	Type
2-pyrrolidone	Consumers	Dermal	6 mg/kg bw/d	Systemic long term
		Dermal	167 mg/kg bw/d	Systemic acute short term
		Inhalation	17.1 mg/m ³	Systemic long term
		Oral	5.2 mg/kg bw/d	Systemic long term
		Oral	33.3 mg/kg bw/d	Systemic acute short term
	Workers	Dermal	277 mg/kg bw/d	Systemic acute short term
		Dermal	10 mg/kg bw/d	Systemic long term
		Inhalation	57.3 mg/m ³	Systemic long term

Predicted no effect concentrations (PNECs)

Component	Type	Value	Form
2-pyrrolidone	Freshwater	0.5 mg/L	
	Intermittent	0.5 mg/L	Releases

SAFETY DATA SHEET

SDS Number:	323, REV A BlueCrest	Effective Date: Revised Date:	December 27, 2018 New SDS
Product Name:	Yellow Ink and Print Head (CG357A Series, CG362A Series)	Page:	4 of 8

	Marine Water	0.05 mg/L	
	Sediment	0.4205 mg/kg	Freshwater
	Soil	0.0612 mg/kg	
	STP	10 mg/L	Sewage treatment plant

8.2 Exposure Controls:

Engineering Controls: None required.

Respiratory Protection: Not 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 for normal use conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Ink cartridge containing a yellow liquid.	Vapor Density: >=1 (air =1)
Odor: Not determined	Specific Gravity: Not determined
Odor Threshold: Not determined	Water Solubility: Soluble
pH: 7.1-7.7	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: >110°C (>230°F) Setaflash	Viscosity: >2 cP
Evaporation Rate: Not determined	Explosion Properties: Not determined
Flammable Limits: LEL: Not determined UEL: Not determined	Oxidizing Properties: Not determined
Vapor Pressure: Not determined	VOC: <225 g/L EPA Method 24
Flammability (solid,gas): Not applicable	

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

SAFETY DATA SHEET

SDS Number:	323, REV A BlueCrest	Effective Date:	December 27, 2018
		Revised Date:	New SDS
Product Name:	Yellow Ink and Print Head (CG357A Series, CG362A Series)	Page:	6 of 8

12.2 Persistence and Degradability:

No data available for product.

2-Pyrrolidone: Through co-metabolism, 2-pyrrolidone was reported to break down to glutamic acid under aerobic conditions by *Bacillus megaterium*.

12.3 Bioaccumulative Potential:

No data available for product.

2-Pyrrolidone: The potential for bioconcentration in aquatic organisms is low.

12.4 Mobility in Soil:

No data available for product.

2-Pyrrolidone: Is expected to have very high mobility in soil.

12.5 Results of PBT and vPvB Assessment:

This product does not meet the criteria for PBT or vPvB.

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 Environmenta l 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 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:

SAFETY DATA SHEET

SDS Number:	323, REV A BlueCrest	Effective Date: Revised Date:	December 27, 2018 New SDS
Product Name:	Yellow Ink and Print Head (CG357A Series, CG362A Series)	Page:	7 of 8

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.

EU Inventory: All of the components in this product are listed on or exempt from the EINECS inventory.

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.

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

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

Taiwan: All of the components are listed on the Taiwan inventory.

U.S. REGULATIONS

CERCLA: Spills of this product are not 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: Refer to Section 2 for the OSHA/GHS Hazard Classification.

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 known.

INTERNATIONAL REGULATIONS

German WGK: Not determined.

EU SVHC: This product does not contain listed chemical at or above 0.1%.

Other Information: This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830. Classification according to Regulation (EC) No 1272/2008 as amended. This Safety Data Sheet also complies with US OSHA Hazcom 2012, Canadian WHMIS 2015, Safe Work Australia and the GHS.

15.2 Chemical Safety Assessment:
Not required for mixtures

SECTION 16: OTHER INFORMATION

NFPA Codes:	Health: 1	Fire: 1	Instability: 0
HIMS Codes:	Health: 1	Fire: 1	Physical Hazard: 0

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

Acute Tox 4 – Acute Toxicity Category 4

Skin Irrit 2 – Skin Irritation Category 2

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		Page:	8 of 8

Eye Dam. 1 – Eye Damage Category 1
Eye Irrit. 2A – Eye Irritation Category 2A
Aquatic Acute 1 – Aquatic Acute Toxicity Category 1
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation
H400 Very toxic to aquatic life.

Date Revised: December 27, 2018
Revision Summary: New SDS
Previous Revision: New SDS