

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Code(s)** CM-488

**Product name** CM-488 BLUE

**Substance or Preparation** Preparation  
Contains Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, aminosulfonyl sulfo derivatives, sodium salts, 1,2-Benzisothiazolin-3-one

### Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** ink

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### **Manufacturer:**

Collins Inkjet Corporation  
1201 Edison Drive  
Cincinnati, Ohio 45216  
PH: 513-948-9000  
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For further information, please contact

**Emergency telephone number** Chemtrec 1-800-424-9300

## Section 2: HAZARD IDENTIFICATION

### Classification of the substance or mixture

Regulation (EC) No 1272/2008

<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Skin sensitization</b>	Category 1 - (H317)

### Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

#### **Symbol(s)**

Xi - Irritant

#### **R-code(s)**

Xi;R36 - R43

### Label Elements

#### **Product identifier**

Contains Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, aminosulfonyl sulfo derivatives, sodium salts, 1,2-Benzisothiazolin-3-one



**Signal word**  
DANGER

**Hazard statements**

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P280 - Wear eye protection/ face protection

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

**Other Hazards**

**General Hazards**

May cause skin and eye irritation.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

Not Applicable

**3.2 Mixtures**

Chemical name	EC No	CAS-No	Weight %	Classification	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No
Blue Dye	Listed	-	1 - 5	Xi;R41	Eye Dam. 1 (H318)	No data available
Ethyl alcohol	EEC No. Present	64-17-5	0.1 - <2	F; R11	Flam. Liq. 2 (H225)	No data available
Black Dye	Listed	-	0.1 - <1	-	No data available	No data available
Isothiazolin Derivative	Listed	-	0.01 - <0.1	Xn; R22 Xi; R38-41 R43 N; R50	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	No data available

**Full text of R-phrases: see section 16**

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

**NOTE**

Remaining components are either not hazardous or below threshold limits.

### Section 4: FIRST AID MEASURES

**Description of first aid measures**

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<b>General advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Immediate medical attention is not required. If symptoms persist, call a physician.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors.
<b>IF ON SKIN</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth. Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.
<b><u>Most important symptoms and effects, both acute and delayed</u></b>	
<b><u>Indication of any immediate medical attention and special treatment needed</u></b>	
<b>Notes to Physician</b>	May cause sensitization of susceptible persons. Use of epinephrine may be indicated. Treat symptomatically.

## Section 5: FIRE-FIGHTING MEASURES

### Extinguishing media

#### **Suitable extinguishing media**

Use. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol resistant foam.

#### **Unsuitable extinguishing media**

None

### Special hazards arising from the substance or mixture

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes  
Thermal decomposition can lead to release of irritating gases and vapors In the event of fire and/or explosion do not breathe fumes  
May cause sensitization by inhalation and skin contact

### Advice for fire-fighters

Wear self-contained breathing apparatus and protective suit.

## Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Use personal protective equipment as required. Avoid contact with skin and eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

## OTHER INFORMATION.

**Advice for Emergency Responders**

Use personal protection recommended in Section 8.

**Environmental Precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** After cleaning, flush away traces with water. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Prevent product from entering drains. Dam up.

**Reference to other sections**

See section 7 for more information.

## Section 7: HANDLING AND STORAGE

**Precautions for safe handling****Handling**

Use personal protective equipment as required. Ensure adequate ventilation. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

**Hygiene Measures**

Wash contaminated clothing before reuse. When using do not eat or drink. Regular cleaning of equipment, work area and clothing is recommended.

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

Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

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

The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

Chemical name	Eu	United Kingdom	France	Spain	Germany
Glycol					TWA: 1000 mg/m <sup>3</sup> Ceiling / Peak: 2000 mg/m <sup>3</sup>
Ethyl alcohol 64-17-5		TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 5000 ppm STEL: 9500 mg/m <sup>3</sup>	VLA-ED: 1000 ppm VLA-ED; 1910 mg/m <sup>3</sup> VLA-ED	TWA: 500 ppm TWA: 960 mg/m <sup>3</sup> Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m <sup>3</sup>
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Ethyl alcohol 64-17-5		TWA: 1000 ppm	MAC: 500 ppm MAC; 1000 mg/m <sup>3</sup> MAC	TWA: 1900 mg/m <sup>3</sup> TWA: 1000 ppm STEL: 2500 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

Chemical name	Austria	Switzerland	Poland	STEL: 1300 ppm Norway	Ireland
Glycol		STEL: 2000 mg/m <sup>3</sup>			
Blue Dye	STEL 0.4 STEL 4 MAK: 0.1				
Ethyl alcohol 64-17-5	STEL 2000 ppm STEL: 3800 mg/m <sup>3</sup> STEL MAK: 1000 ppm MAK; 1900 mg/m <sup>3</sup> MAK	STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup>	NDS: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 950 mg/m <sup>3</sup> STEL: 1187.5 mg/m <sup>3</sup> STEL: 625 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

### Exposure controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

### **Personal Protective Equipment**

- Eye/Face Protection** Tight sealing safety goggles. Face protection shield.
- Hand protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
- Skin and body protection** Suitable protective clothing. Apron. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
- Respiratory protection** None under normal use conditions.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### General information

**Physical state** liquid  
**Appearance** blue  
**Odor** Acrylic

### Important health, safety and environmental information

<b>Flash Point</b>	> 100 °C	<b>Method</b>	Seta closed cup.
<b>Boiling point/range (°C)</b>	No information available	<b>pH</b>	
<b>VALUE</b>		<b>Autoignition temperature</b>	>200 °C
<b>PH</b> 9 - 11		<b>VOC Content</b>	No information available
<b>Vapor Pressure</b>	No information available	<b>Solubility</b>	miscible
<b>Viscosity</b>	< 15 cps	<b>Specific gravity</b>	0.9 - 1.1
<b>Water solubility</b>	Soluble in water	<b>Vapor Density</b>	Heavier than air
<b>Evaporation Rate</b>	No information available	<b>Flammability Limit in Air</b>	No information available

### OTHER INFORMATION

**Melting point / melting range** No information available

## Section 10: STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact No information available.  
Sensitivity to Static Discharge None.

**Possibility of hazardous reactions**

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

Carbon oxides.

## Section 11: TOXICOLOGY INFORMATION

**Information on toxicological effects**

**Acute toxicity**

**Product Information**

The product has not been tested.

<b>Inhalation</b>	May cause irritation of respiratory tract. Avoid breathing vapors or mists.
<b>Eye contact</b>	Irritating to eyes. Avoid contact with eyes. Causes serious eye damage.
<b>IF ON SKIN</b>	May cause irritation. Avoid contact with skin.
<b>Ingestion</b>	May be harmful if swallowed. Do NOT taste or swallow.

**Unknown acute toxicity** 0.456% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	66,948.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	11,014.30 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl alcohol	= 7060 mg/kg ( Rat )		= 124.7 mg/L ( Rat ) 4 h
Isothiazolin Derivative	= 1020 mg/kg ( Rat )		

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** Risk of serious damage to eyes. Irritating to eyes.

**Sensitization** May cause an allergic skin reaction.

**Mutagenic effects** Contains: Black Dye. This material has tested positive in mutagenicity studies, however the relevance of these data to human health is uncertain.

<b>Carcinogenic effects</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target organ effects</b>	Respiratory System, EYES, skin, Gastrointestinal tract (GI), blood, Central Nervous System (CNS), kidney, liver, Reproductive System.
<b>Aspiration hazard</b>	No information available.

## Section 12: ECOLOGICAL INFORMATION

### Toxicity

#### Ecotoxicity effects

Not Established.

6.36172045% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Ethyl alcohol		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static

### Persistence and degradability

No information available.

### Bioaccumulative potential

No information available.

Chemical name	Log Pow
Ethyl alcohol	-0.32
Isothiazolin Derivative	1.3

### Mobility in soil

#### Mobility in soil

No information available.

### Results of PBT and vPvB assessment

This substance is considered to be persistent, bioaccumulating and toxic (PBT).

### Other adverse effects

No information available

## Section 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>OTHER INFORMATION</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

### IMDG/IMO

<b>14.1 UN-No</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Marine pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available

### RID

<b>14.1 UN-No</b>	Not Regulated
<b>14.2 Proper shipping name</b>	Not Regulated
<b>14.3 Hazard Class</b>	Not Regulated
<b>14.4 Packing group</b>	Not Regulated
<b>14.5 Environmental Hazard</b>	Not Applicable
<b>14.6 Special Provisions</b>	None

### ADR

<b>14.1 UN-No</b>	Not Regulated
<b>14.2 Proper shipping name</b>	Not Regulated
<b>14.3 Hazard Class</b>	Not Regulated
<b>14.4 Packing group</b>	Not Regulated
<b>14.5 Environmental Hazard</b>	Not Applicable
<b>14.6 Special Provisions</b>	None

### ICAO

<b>14.1 UN-No</b>	Not Regulated
<b>14.2 Proper shipping name</b>	Not Regulated
<b>14.3 Hazard Class</b>	Not Regulated
<b>14.4 Packing group</b>	Not Regulated
<b>14.5 Environmental Hazard</b>	Not Applicable
<b>14.6 Special Provisions</b>	None

### IATA

<b>14.1 UN-No</b>	Not Regulated
<b>14.2 Proper shipping name</b>	Not Regulated
<b>14.3 Hazard Class</b>	Not Regulated
<b>14.4 Packing group</b>	Not Regulated
<b>14.5 Environmental Hazard</b>	Not Applicable
<b>14.6 Special Provisions</b>	None

## Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture



**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Blue Dye	X	X	X	X	X	-	X	X
Ethyl alcohol 64-17-5	X	X	X	X	X	X	X	X
Black Dye	X	X	X	X	X	X	X	X
Isothiazolin Derivative	X	X	X	X	X	X	X	X

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

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

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

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**Chemical safety assessment**

No information available

<b>Section 16: OTHER INFORMATION</b>
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**Full text of R-phrases referred to under sections 2 and 3**

R41 - Risk of serious damage to eyes

R36 - Irritating to eyes

R50 - Very toxic to aquatic organisms

R43 - May cause sensitization by skin contact

R38 - Irritating to skin

R22 - Harmful if swallowed

R36/38 - Irritating to eyes and skin

**Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

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**Issuing Date**

12-May-2015

**Revision date**

12-May-2015

Reason for revision Not Applicable.

Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet