

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

Product identifier

Product Code(s) TWK2010H
Product name TWK2010H BLACK

Substance or Preparation Preparation
Contains 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
Info@collinsinkjet.com
For further information, please contact

Emergency telephone number Chemtrec 1-800-424-9300

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	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)

R43

Label elements

Product identifier

Contains 1,2-Benzisothiazolin-3-one



Signal word
WARNING

Hazard statements

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

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

P280 - Wear eye protection/ face protection

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

Other Hazards

combustible liquid.

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
Lactam	Listed	-	1 - 10	Xi;R36/38	Eye Irrit. 2 (H319)	No data available
Triethanolamine	EEC No. Present	102-71-6	1 - 10	Xi;R36	Eye Irrit. 2 (H319)	No data available
Isothiazolin Derivative	Listed	-	0.1 - <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
Ethyl alcohol	EEC No. Present	64-17-5	0.01 - <1	F; R11	Flam. Liq. 2 (H225)	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

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Immediate medical attention is not required.
Inhalation	Remove to fresh air. If symptoms persist, call a physician.
IF ON SKIN	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.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth.
Self-protection of the first aider	Use personal protective equipment as required.
<u>Most important symptoms and effects, both acute and delayed</u>	
<u>Indication of any immediate medical attention and special treatment needed</u>	
Notes to Physician	May cause sensitization of susceptible persons. Use of epinephrine may be indicated.

Section 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use. Carbon dioxide (CO₂). 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.

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.

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.

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.

Hygiene Measures

Wash contaminated clothing before reuse. When using do not eat or drink.

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.

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
Triethanolamine 102-71-6				VLA-ED: 5 mg/m ³ VLA-ED	TWA: 5 mg/m ³ Ceiling / Peak: 20 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Triethanolamine 102-71-6		TWA: 5 mg/m ³	MAC: 5 mg/m ³ MAC	TWA: 5 ppm	TWA: 0.5 ppm TWA: 3.1 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Triethanolamine 102-71-6	STEL 1.6 ppm STEL (inhalable fraction); 10 mg/m ³ STEL (inhalable fraction) MAK: 0.8 ppm MAK (inhalable fraction); 5 mg/m ³ MAK (inhalable fraction)	STEL: 20 mg/m ³		TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³

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

Hand protection

Skin and body protection

Respiratory protection

Tight sealing safety goggles.

For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Suitable protective clothing.

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	black
Odor	slight amine		
Important health, safety and environmental information			
Flash Point	> 70 °C	Method	Seta closed cup.
Boiling point / boiling range	No information available	pH	
PH	7.5 - 9.5	Autoignition temperature	>200 °C
Vapor Pressure	No information available	VOC Content	No information available
Viscosity	< 15 cps	Solubility	Soluble in water
Specific gravity	1.0 - 1.1	Evaporation Rate	No information available
Vapor Density	Heavier than air		
		Flammability Limit in Air	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 None.

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: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product Information

The product has not been tested.

Inhalation	May cause irritation of respiratory tract. Avoid breathing vapors or mists.
Eye contact	Contact with eyes may cause irritation. Avoid contact with eyes.
IF ON SKIN	May cause irritation. May cause sensitization by skin contact. Avoid contact with skin.
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts. May be harmful if swallowed. Do NOT taste or swallow.

Unknown acute toxicity 30.799992% of the mixture consists of ingredient(s) of unknown toxicity.

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

ATEmix (oral) 16,126.00 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lactam	> 3200 mg/kg (Rat)		
Triethanolamine	= 4190 mg/kg (Rat)	> 20 mL/kg (Rabbit) > 16 mL/kg (Rat)	
Isothiazolin Derivative	= 1020 mg/kg (Rat)		
Ethyl alcohol	= 7060 mg/kg (Rat)		= 124.7 mg/L (Rat) 4 h

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	No information available.
Carcinogenic effects	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target organ effects	Respiratory System, EYES, skin, Gastrointestinal tract (GI).
Aspiration hazard	No information available.

Section 12: ECOLOGICAL INFORMATION

Toxicity**Ecotoxicity effects**

Not Established.

31.55039% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Lactam	250: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 84: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	4600 - 10000: 96 h <i>Brachydanio rerio</i> mg/L LC50 static	3.4: 96 h <i>Daphnia magna</i> mg/L LC50
Triethanolamine	216: 72 h <i>Desmodesmus</i>	10600 - 13000: 96 h <i>Pimephales</i>	1386: 24 h <i>Daphnia magna</i> mg/L

	subspicatus mg/L EC50 169: 96 h Desmodemus subspicatus mg/L EC50	promelas mg/L LC50 flow-through 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 1000: 96 h Pimephales promelas mg/L LC50 static	EC50
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
Lactam	-0.71
Triethanolamine	-2.53
Isothiazolin Derivative	1.3
Ethyl alcohol	-0.32

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

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

OTHER INFORMATION

Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

14.1 UN-No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated

14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

RID

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

ADR

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

ICAO

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

IATA

14.1 UN-No	Not Regulated
14.2 Proper shipping name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing group	Not Regulated
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	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
Lactam	X	X	X	X	X	X	X	X
Triethanolamine 102-71-6	X	X	X	X	X	X	X	X
Isothiazolin Derivative	X	X	X	X	X	X	X	X
Ethyl alcohol	X	X	X	X	X	X	X	X

64-17-5								
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Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - 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

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R36 - Irritating to eyes
R50 - Very toxic to aquatic organisms
R43 - May cause sensitization by skin contact
R41 - Risk of serious damage to eyes
R38 - Irritating to skin
R22 - Harmful if swallowed
R25 - Toxic if swallowed
R36/38 - Irritating to eyes and skin

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

H319 - Causes serious eye irritation
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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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