

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

Product identifier

Product Code(s) TWK1966H

Product name Data Black

Synonyms None
Substance or Preparation Preparation

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
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Cincinnati, Ohio 45216
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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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

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

Full text of R-phrases: see section 16

Symbol(s)

Not dangerous

Label elements

Product identifier

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Signal word

None

EUH210 - Safety data sheet available on request

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
Lactam	Listed	-	1 - 10	Xi;R36/38	Eye Irrit. 2 (H319)	No data available
Black Dye	Listed	-	1 - 5	-	No data available	No data available
Glycol Ether	Listed	-	.01 - 5	Repr.Cat.3; R63	Repr. 2 (H361d)	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).
Inhalation	Call a physician immediately. Move to fresh air in case of accidental inhalation of vapors. If breathing is irregular or stopped, administer artificial respiration. None under normal use conditions. Get medical attention immediately if symptoms occur.
IF ON SKIN	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
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. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Drink 1 or 2 glasses of water.

Most important symptoms and effects, both acute and delayed**Indication of any immediate medical attention and special treatment needed**

Notes to Physician Treat symptomatically.

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

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 protection recommended in Section 8.

Advice for Emergency Responders

Use personal protection recommended in Section 8.

Environmental Precautions

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**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

After cleaning, flush away traces with water.

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. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation.

Hygiene Measures

Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

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

Keep containers tightly closed in a dry, cool and 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
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Humectant		STEL: 30 mg/m ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³	VLA-ED: 10 mg/m ³ VLA-ED	TWA: 50 mg/m ³ Ceiling / Peak: 100 mg/m ³
Glycol Ether	TWA: 10 ppm TWA: 50.1 mg/m ³	TWA: 10 ppm TWA: 50.1 mg/m ³ Skin	TWA: 10 ppm TWA: 50.1 mg/m ³	S* VLA-ED: 10 ppm VLA-ED; 50.1 mg/m ³ VLA-ED	TWA: 10 ppm TWA: 50 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Humectant		TWA: 10 mg/m ³	MAC: 10 mg/m ³ MAC (mist)	TWA: 20 mg/m ³	
Glycol Ether			Skin MAC: 9 ppm MAC; 45 mg/m ³ MAC	TWA: 10 ppm TWA: 50 mg/m ³ Skin	TWA: 10 ppm TWA: 50.1 mg/m ³ Skin
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Humectant		STEL: 100 mg/m ³	NDS: 10 mg/m ³		TWA: 10 mg/m ³
Glycol Ether			NDS: 50 mg/m ³		TWA: 10 ppm TWA: 50.1 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** Tight sealing safety goggles. Wear safety glasses with side shields (or goggles). If splashes are likely to occur:.
- Hand protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
- Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
- Respiratory protection** None under normal use conditions.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

General information

Physical state	liquid	Appearance	black
Odor	slight amine		
Important health, safety and environmental information			
Flash Point	> 100 °C	Method	Seta closed cup.
Boiling point / boiling range	No information available	pH	
PH	8.8 - 10	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	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Eye contact	Contact with eyes may cause irritation.
IF ON SKIN	May cause irritation. May discolor the skin.
Ingestion	MAY BE HARMFUL IF SWALLOWED. Do NOT taste or swallow.

Unknown acute toxicity 7.39462% 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) 35,620.00 mg/kg

ATEmix (dermal) 21,527.00 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lactam	> 3200 mg/kg (Rat)		
Glycol Ether	= 4 mL/kg (Rat)	= 650 mg/kg (Rabbit) = 2500 µL/kg (Rabbit)	

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Sensitization	No information available.
Mutagenic effects	Contains: Black Dye. This material has tested positive in mutagenicity studies, however the relevance of these data to human health is uncertain.
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	EYES, kidney, Respiratory System, skin.
Aspiration hazard	No information available.

Section 12: ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects

Not Established.

8.345018% 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)
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
Glycol Ether	500: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	7500: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 5741: 96 h <i>Pimephales promelas</i> mg/L LC50 7500: 96 h <i>Lepomis macrochirus</i> mg/L LC50	500: 48 h <i>Daphnia magna</i> mg/L EC50

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Chemical name	Log Pow
Lactam	-0.71
Glycol Ether	-0.682

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.

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
Black Dye	X	X	X	X	X	X	X	X
Glycol Ether	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

Section 16: OTHER INFORMATION

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

R63 - Possible risk of harm to the unborn child

R36/38 - Irritating to eyes and skin

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

H361d - Suspected of damaging the unborn child

H319 - Causes serious eye irritation

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Issuing Date 17-Mar-2015

Revision date 17-Mar-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