Material Safety Data Sheet



Issuing Date October 7, 2010

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Black Ink w/ Heads-up Technology

Product Code(s) CM-557H
Recommended Use Ink.

Manufacturer: Collins Ink Corporation

1201 Edison Drive Cincinnati, Ohio 45216 PH: 513-948-9000 Info@collinsink.com

Manufactured by: Collins Ink Corporation

1201 Edison Drive Cincinnati, Ohio 45216 PH: 513-948-9000 info@collinsink.com

Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Appearance Black Physical State Liquid Odor Slight amine

Potential Health Effects

Principle Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion.

Acute Toxicity

Eyes Avoid contact with eyes. Contact with eyes may cause irritation.

Skin May cause irritation. Avoid contact with skin.

Inhalation May cause irritation of respiratory tract. Avoid breathing vapors or mists.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea.

Chronic Effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Black Dye	NOT AVAILABLE	1 - 5
Triethanolamine	102-71-6	1 - 5
Lactam	-	0.01 - 3

Additional Notes Remaining components are either not hazardous or below threshold limits.

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. If symptoms persist, call a physician.

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.

Get medical attention immediately if symptoms occur.

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.

5. FIRE-FIGHTING MEASURES

Flash Point > 100 °C

Method Seta closed cup

Suitable Extinguishing Media
Unsuitable Extinguishing Media

Use:. Carbon dioxide (CO). Dry chemical. Alcohol-resistant foam.

None.

Explosion Data

Sensitivity to Mechanical ImpactNone.Sensitivity to Static DischargeNone.

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective suit.

NFPA Health Hazard 1 Flammability 1 Stability 0 Physical and Chemical

Hazards -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Refer to Section 8.

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 UpAfter cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid

breathing vapors or mists. Ensure adequate ventilation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Black Dye NOT AVAILABLE			
Triethanolamine 102-71-6	TWA: 5 mg/m ³		
Lactam			

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

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles. Safety glasses with side-shields. If splashes are likely to

occur, wear:.

Skin and Body Protection Impervious gloves.

Respiratory Protection None required under normal usage.

Hygiene Measures Remove and wash contaminated clothing before re-use. Handle in accordance with good

industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceBlackOdorSlight aminePhysical StateLiquidpH9 - 11

Flash Point > 100 °C Method Seta closed cup

Autoignition Temperature >200 °C Boiling Point/Range No information available

Flammability Limits in Air No information available

Explosion Limits No information available

Specific Gravity 0.9 - 1.1 **Solubility** Soluble in water

Evaporation Rate No information available Vapor Pressure No information available

Vapor DensityHeavier than airViscosity< 15 cps</th>

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Incompatible Products Strong oxidizing agents.

Hazardous Decomposition Products Carbon oxides.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information The product itself has not been tested.

Irritation May cause irritation of respiratory tract. May cause skin and eye irritation.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Triethanolamine	4190 mg/kg (Rat)	16 mL/kg (Rat) 2000 mg/kg (Rabbit)	
Lactam	3598 mg/kg (Rat)	2000 mg/kg (Rabbit) 2500 mg/kg (Rat)	3.1 mg/L (Rat) 4 h

Chronic Toxicity

Carcinogenicity Contains no ingredient listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not established.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water
				Flea)

Triethanolamine	EC50 = 169 mg/L 96 h EC50	LC50 10600-13000 mg/L	EC50 > 10000 mg/L 30 min	= 1386 mg/L EC50
	= 216 mg/L 72 h	Pimephales promelas 96 h		
		LC50 450-1000 mg/L		
		Lepomis macrochirus 96 h		
		LC50> 1000 mg/L		
		Pimephales promelas 96 h		
Lactam	EC50 > 500 mg/L 72 h	LC50= 1072 mg/L		= 4897 mg/L EC50
		Pimephales promelas 96 h		
		LC50= 1400 mg/L Poecilia		
		reticulata 96 h LC50= 4000		
		mg/L Leuciscus idus 96 h		
		LC50= 832 mg/L Lepomis		
		macrochirus 96 h		

Chemical Name	Log Pow
Triethanolamine	= -2.53
Lactam	= -0.46 25 °C

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

International Inventories

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Chemical Name	TSCA	DSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS	NZIOC
Triethanolamine - 102-71-6	Present	Х	X	(2)-308	X	KE-25940	X	X	Х
Lactam -	Present	X	X	(5)-113	Х	KE-25324	Х	Х	X

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Lactam		0.01 - 3	1.0

SARA 311/312 Hazard Categories

Chronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act

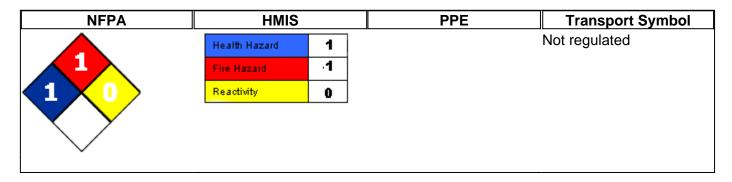
Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Triethanolamine	102-71-6	1 - 5		Group I		

CERCLA

U.S. State Regulations International Regulations Mexico - Grade Canada

No information available.

16. OTHER INFORMATION



Prepared By Collins Ink Corporation

1201 Edison Drive Cincinnati, Ohio 45216

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Revision Note

No information available

Disclaimer

This product is intended to be used as a printing fluid. The information provided on this MSDS 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 MSDS