TRANSTECH

Issuing Date February 15, 2011

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **ColorBond UV Ink Black**

Product Code(s) D-831-0024
Recommended Use Ink.
Distributor:
ITW Trans Tech
475 N. Gary Ave
Carol Stream, IL 60188
General Assistance PH: (630) 752-4000

Emergency Telephone Number: 24 hour emergency PH: (352) 323-3500

2. HAZARDS IDENTIFICATION

WARNING!
Appearance Black **Physical State** Liquid **Odor** Slight

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects
Principle Routes of Exposure Eye contact, Skin contact, Inhalation.

Acute Toxicity

Eyes Irritating to eyes.
Skin May cause sensitization by skin contact. Irritating to skin. Harmful in contact with skin.
Inhalation Irritating to respiratory system. May be harmful if inhaled.
Ingestion Harmful if swallowed.

Chronic Effects
Aggravated Medical Conditions Respiratory disorders.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Tripropylene glycol diacrylate	42978-66-5	25 - 50
Propylene carbonate	108-32-7	1 - 25
Monomer	-	1 - 5
Carbon black	1333-86-4	1 - 5
Photo Initiator	-	0.1 - <1
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	162881-26-7	0.1 - <1

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. Seek immediate medical attention/advice. In case of accidental skin or eye contact, avoid exposure to ultra-violet light.

Skin Contact Consult a physician if necessary. Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes.

Inhalation Consult a physician. Move to fresh air in case of accidental inhalation of vapors.

Ingestion Do NOT induce vomiting. Consult a physician. Rinse mouth with water and afterwards drink plenty of water or milk.

Notes to Physician Eye Contact - Emergency Medical Treatment Procedures:
Some photoinitiators cure in the near UV and visible light range. Keep overhead lighting OFF as a precaution. Flush eyes for an additional 15-30 minutes prior to examination under light. DO NOT use UV light with fluorescent stain to examine injured eye without copious irrigation of the eye.

5. FIRE-FIGHTING MEASURES

Flash Point > 95 °C

Suitable Extinguishing Media Use:. Water spray. Carbon dioxide (CO_2). Dry chemical. Cool containers with flooding quantities of water until well after fire is out.

Explosion Data

NFPA **Health Hazard** 2 **Flammability** 1 **Stability** 2 **Physical and Chemical Hazards** -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Refer to Section 8.

Storage Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place. Keep away from heat. Keep away from direct sunlight. Store at ambient conditions. Keep away from amines. Avoid contamination from any source, including metals, dust and organic material. Use with adequate ventilation. Keep away from copper, copper alloys. Do not store or mix with strong acids or alkali. Do not store near strong oxidizing chemicals. Violent polymerization may occur at elevated temperatures. It is best to avoid energy sources such as heat, light, gamma or X-rays during transportation and storage. Overexposure to these types of energy may cause pre-mature gellation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tripropylene glycol diacrylate 42978-66-5			
Propylene carbonate 108-32-7			
Monomer			
Carbon black 1333-86-4	TWA: 3.5 mg/m^3	TWA: 3.5 mg/m^3	IDLH: 1750 mg/m^3 TWA: 3.5 mg/m^3 TWA: 0.1 mg/m^3
Photo Initiator			

Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)- 162881-26-7			

Engineering Measures Process enclosure and/or ventilation systems.

Personal Protective Equipment

Hygiene Measures Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black	**Odor**	Slight
Physical State	Liquid		
Flash Point	> 95 °C	**Autoignition Temperature**	>200
Boiling Point/Range	No information available		
		Flammability Limits in Air	No information available
Explosion Limits	No information available		
Specific Gravity	1.0 - 1.1	**Solubility**	No information available
Evaporation Rate	No information available	**Vapor Pressure**	No information available
Vapor Density	No information available.		

10. STABILITY AND REACTIVITY

Conditions to Avoid Heat, flames and sparks.

Hazardous Decomposition Products Carbon oxides. Sulfur oxides.

Hazardous Polymerization Hazardous polymerization may occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tripropylene glycol diacrylate	3000 mg/kg (Rat)	2 g/kg (Rabbit)	
Propylene carbonate	29000 mg/kg (Rat)	20000 mg/kg (Rabbit)	
Monomer		13 g/kg (Rabbit)	
Carbon black	15400 mg/kg (Rat)	3 g/kg (Rabbit)	

Chronic Toxicity

Carcinogenicity This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is not in a respirable form.

Chemical Name	ACGIH	IARC	NTP	OSHA
Carbon black		Group 2B		X

Target Organ Effects Respiratory system

12. ECOLOGICAL INFORMATION

Ecotoxicity
Not established.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Tripropylene glycol diacrylate	EC50 > 28 mg/L 72 h	LC50 4.5-10 mg/L Leuciscus idus 96 h	EC50 > 10000 mg/L 30 min	= 88.7 mg/L EC50
Propylene carbonate	EC50 > 500 mg/L 72 h	LC50= 5300 mg/L Leuciscus idus 96 h LC50> 1000 mg/L Cyprinus carpio 96 h	EC50 > 10000 mg/L 17 h	> 500 mg/L EC50
Carbon black				> 5600 mg/L EC50

Persistence and Degradability No information available.

Chemical Name	Log Pow
Propylene carbonate	= 0.48 25 °C

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS	NZIOC
Tripropylene glycol diacrylate - 42978-66-5	Present	X	X	(7)-152	X	KE-23937	X	X	X
Propylene carbonate - 108-32-7	Present	X	X	(5)-524 (7)-737	X	KE-23785	X	X	X
Monomer -	XU	X	X		X	KE-20308	X	X	X
Carbon black - 1333-86-4	XU	X	X	(5)-3328 (5)-5222	X	KE-04682	X	X	X
Photo Initiator -	Present		X		X			X	
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)- - 162881-26-7	P	X	X	(3)-4445	X	97-3-613		X	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.

SARA 311/312 Hazard Categories

Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Propylene carbonate	108-32-7	1 - 25		Group V		

CERCLA

U.S. State Regulations

California Proposition 65

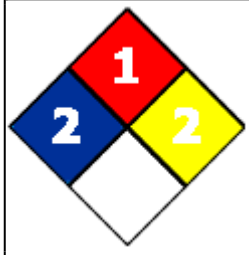
This product contains the following Proposition 65 chemicals

International Regulations

Mexico - Grade No information available.

Canada

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol
	HEALTH 2 FLAMMABILITY 1 REACTIVITY 2 PERSONAL PROTECTION		Not regulated

Prepared By

Trans Tech
475 N. Gary Ave
Carol Stream, IL 60188

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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