

Issuing Date March 27, 2012

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ColorBond UV Ink Red

Product Code(s) D-831-0026 (Revision 1)

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 Red **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, Ingestion.

Acute Toxicity

Eyes Irritating to eyes. Avoid contact with eyes

Skin May cause sensitization by skin contact. Irritating to skin. Avoid contact with skin.

Inhalation Irritating to respiratory system. May be harmful if inhaled.

Ingestion May be harmful if swallowed. Do not taste or swallow.

Chronic Effects

Aggravated Medical Conditions Skin disorders. Gastrointestinal track. Preexisting eye disorders. Respiratory disorders.

Environmental Hazard Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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
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	In case of accidental skin or eye contact, avoid exposure to ultra-violet light. Seek immediate medical attention/advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Consult a physician if necessary.
Inhalation	Move to fresh air in case of accidental inhalation of vapors. Consult a physician.
Ingestion	Rinse mouth with water and afterwards drink plenty of water or milk. Consult a physician. Do NOT induce vomiting.
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	Water spray. Carbon dioxide (CO ₂). Dry chemical. Cool containers with flooding quantities of water until well after fire is out. Use:.			
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.
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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			
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	Red	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	Solubility	No information available
Specific Gravity	1.0 - 1.1	Vapor Pressure	No information available
Evaporation Rate	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)	

Chronic Toxicity

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

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/ELI NCS	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
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.

