SAFETY DATA SHEET

Issuing Date 02/24/2010

Revision Date 06-Mar-2015

Revision Number 1





1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier		
Product Name	Ultra Perm Opaque Ink	
Other means of identification		
UN-No.	UN1210	
Synonyms	None	
Recommended use of the chemical	and restrictions on use	
Recommended Use	Professional Use Only	
Uses advised against	No information available	
Details of the supplier of the safety data sheet		
Supplier Name Supplier Address	Pro Colorflex Ink Corp 3588 Arden Road Hayward CA 94545 US	
Supplier Phone Number	Phone:800-485-2605 Fax:510-293-3038 Contact Phone510-293-3033	
Supplier Email Emergency telephone number	sales@procolorflex.com 800-485-2605 M – F 8:00 AM – 4:30 PM	

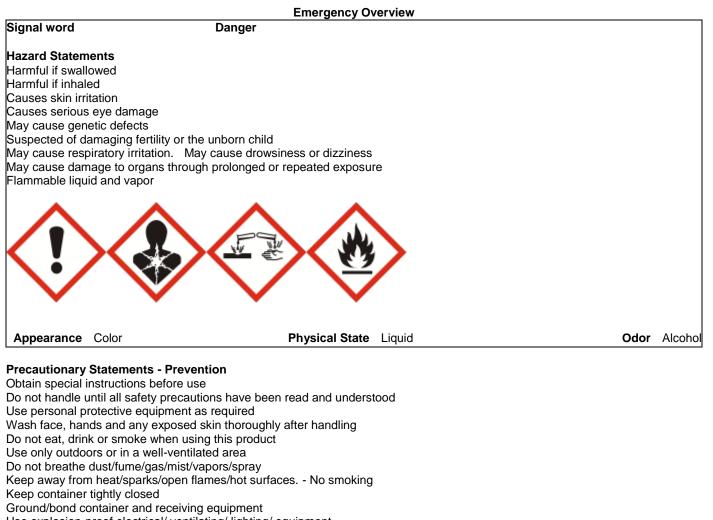
2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 3

GHS Label elements, including precautionary statements



Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool



Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Skin

If skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

15% of the mixture consists of ingredient(s) of unknown toxicity

Other information

May be harmful in contact with skin Harmful to aquatic life with long lasting effects PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
2-Butoxyethanol	111-76-2	15 - 40	*
n-Propyl alcohol	71-23-8	10 - 30	*
Titanium dioxide	13463-67-7	10 - 30	*
n-Butyl alcohol	71-36-3	10 - 30	*
Carbon black	1333-86-4	10 - 30	*
Ethyl alcohol	64-17-5	5 - 10	*
Toluene	108-88-3	3 - 7	*
Isopropyl alcohol	67-63-0	3 - 7	*
Solvent naphtha (petroleum), light aliphatic	64742-89-8	1 - 5	*
Propylene glycol propyl ether	1569-01-3	1 - 5	*
n-Propyl acetate	109-60-4	1 - 5	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical attention/advice.
Skin Contact	Get medical attention if irritation develops and persists. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Most important symptoms and e	effects, both acute and delayed

Most Important Symptoms and Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. **Effects**

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Effects of exposure (inhalation, ingestion or skin contact) to substance may be
	delayed.



5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use dry chemical extinguishers to control fires involving nitromethane or nitroethane. Do not use straight streams.

Specific Hazards Arising from the Chemical

Vapors can form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Uniform Fire Code	Irritant: Liquid Toxic: Liquid Flammable Liquid: I-C
Hazardous Combustion Products	

Carbon oxides.

Explosion Data Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.	
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.	
Environmental Precautions		
Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas.	
Methods and material for containment and cleaning up		
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.	
Methods for cleaning up	Use clean non-sparking tools to collect absorbed material. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.	



7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.
Conditions for safe storage, includi	ng any incompatibilities
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.
Incompatible Products	Strong oxidizing agents. Strong bases. Chlorinated compounds. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm
111-76-2		TWA: 240 mg/m ³	TWA: 5 ppm
		(vacated) TWA: 25 ppm	TWA: 24 mg/m ³
		(vacated) TWA: 120 mg/m ³	
		(vacated) S*	
n-Propyl alcohol	TWA: 100 ppm	TWA: 200 ppm	IDLH: 800 ppm
71-23-8		TWA: 500 mg/m ³	TWA: 200 ppm
		(vacated) TWA: 200 ppm	TWA: 500 mg/m ³
		(vacated) TWA: 500 mg/m ³	STEL: 250 ppm
		(vacated) STEL: 250 ppm	STEL: 625 mg/m ³
		(vacated) STEL: 625 mg/m ³	
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust	IDLH: 5000 mg/m ³
13463-67-7	_	(vacated) TWA: 10 mg/m ³ total	_
		dust	
n-Butyl alcohol	TWA: 20 ppm	TWA: 100 ppm	IDLH: 1400 ppm
71-36-3		TWA: 300 mg/m ³	Ceiling: 50 ppm
		(vacated) Š*	Ceiling: 150 mg/m ³
		(vacated) Ceiling: 50 ppm	
		(vacated) Ceiling: 150 mg/m ³	
Carbon black	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³
1333-86-4	_	(vacated) TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³
			TWA: 0.1 mg/m ³ Carbon black in
			presence of Polycyclic aromatic
			hydrocarbons PAH

Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm 10% LEL
64-17-5		TWA: 1900 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m ³	-
Toluene	TWA: 20 ppm	TWA: 200 ppm	IDLH: 500 ppm
108-88-3		(vacated) TWA: 100 ppm	TWA: 100 ppm
		(vacated) TWA: 375 mg/m ³	TWA: 375 mg/m ³
		(vacated) STEL: 150 ppm	STEL: 150 ppm
		(vacated) STEL: 560 mg/m ³	STEL: 560 mg/m ³
		Ceiling: 300 ppm	
Isopropyl alcohol	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm 10% LEL
67-63-0	TWA: 200 ppm	TWA: 980 mg/m ³	TWA: 980 mg/m ³
		(vacated) TWA: 400 ppm	TWA: 400 ppm
		(vacated) TWA: 980 mg/m ³	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m ³
		(vacated) STEL: 1225 mg/m ³	
n-Propyl acetate	STEL: 250 ppm	TWA: 200 ppm	IDLH: 1700 ppm
109-60-4	TWA: 200 ppm	TWA: 840 mg/m ³	TWA: 200 ppm
		(vacated) TWA: 200 ppm	TWA: 840 mg/m ³
		(vacated) TWA: 840 mg/m ³	STEL: 250 ppm
		(vacated) STEL: 250 ppm	STEL: 1050 mg/m ³
		(vacated) STEL: 1050 mg/m ³	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

```
Other Exposure Guidelines
```

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures	Showers
	Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tight sealing safety goggles.
Skin and Body Protection	Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves. Chemical resistant apron. Antistatic boots.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Appearance Color	Liquid Color No information available	Odor Odor Threshold	Alcohol No information available
Property	<u>Values</u>	Remarks Method	



рН	UNKNOWN
Melting / freezing point	No data available
Boiling point / boiling range	No data available
Flash Point	23 C / 73 F
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability limit	No data available
Lower flammability limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Specific Gravity	No data available
Water Solubility	Insoluble in water
Solubility in other solvents	No data available
Partition coefficient: n-octanol/wate	rNo data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive properties	No data available
Oxidizing Properties	No data available

Other Information

Softening Point VOC Content (%) Particle Size Particle Size Distribution No data available No data available No data available None known None known

None known

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Excessive heat. Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong bases. Chlorinated compounds. Acids.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION



Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).
Eye Contact	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes.
Skin Contact	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed. (based on components).

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 220 mg/kg (Rabbit)	= 450 ppm (Rat)4 h
n-Propyl alcohol 71-23-8	= 1870 mg/kg (Rat)	-	> 13548 ppm (Rat)4 h
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
n-Butyl alcohol 71-36-3	-	-	= 8000 ppm (Rat)4 h
Carbon black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Ethyl alcohol 64-17-5	-	-	= 124.7 mg/L (Rat)4 h
Toluene 108-88-3	= 636 mg/kg (Rat)	= 8390 mg/kg (Rabbit)	= 12.5 mg/L (Rat)4 h > 26700 ppm (Rat)1 h
Isopropyl alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat)8 h
Solvent naphtha (petroleum), light aliphatic 64742-89-8	-	= 3000 mg/kg (Rabbit)	-
n-Propyl acetate 109-60-4	= 9370 mg/kg (Rat)	> 20 mL/kg (Rabbit)	-

Information on toxicological effects

SymptomsErythema (skin redness). May cause redness and tearing of the eyes. May cause
blindness. Burning. Coughing and/ or wheezing.Delayed and immediate effects as well as chronic effects from short and long-term exposureSensitizationNo information available.Mutagenic EffectsContains a known or suspected mutagen.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol 111-76-2	A3	Group 3		
Titanium dioxide 13463-67-7		Group 2B		X
Carbon black 1333-86-4	A3	Group 2B		X
Ethyl alcohol 64-17-5	A3	Group 1	Known	X
Toluene 108-88-3		Group 3		
Isopropyl alcohol 67-63-0		Group 3		X
IARC (International Agency Group 1 - Carcinogenic to Hu Group 2B - Possibly Carcino Group 3 - Not Classifiable as NTP (National Toxicology I Known - Known Carcinogen OSHA (Occupational Safety X - Present	umans genic to Humans to Carcinogenicity in Hu Program)		of Labor)	
Reproductive Toxicity		r contains a chemical whic known or suspected repro		d reproductive hazard.
STOT - single exposure	No informat	No information available.		
STOT - repeated exposure	classificatio 1910.1200)	Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).		
Chronic Toxicity Target Organ Effects	known or su cause chror intentional o effects. Etha consumed a Agency for inhalation. T carbon blac classified by carcinogeni a non-respin this product Respiratory	Contains a known or suspected mutagen. Possible risk of irreversible effects. Contains a known or suspected reproductive toxin. Avoid repeated exposure. Prolonged exposure may cause chronic effects. Contains toluene. Exposure to toluene in animals via inhalation and intentional overexposure to toluene in humans has caused adverse fetal development effects. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Carbon black has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. This product contains carbon black in a non-respirable form. Inhalation of carbon black is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Gancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. This product contains (Group 2B) by inhalation. This product contains (Group 2B) by inhalation. This product contains titanium dioxide in a non-respirable form. Inhalation of carbon black is unlikely to occur from exposure to this product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Respiratory system. Eyes. Skin. May affect the genetic material in germ cells (sperm and eggs). Gastrointestinal tract (GI). Reproductive System. Blood. Central Nervous System		
	(ĈŃŚ). Hen Toxicity.	natopoietic system. Kidney		Central Nervous System System. Spleen. Systemic
Aspiration Hazard	No informat	ion available.		
Numerical measures of toxi	city Product Inforn	nation		

Numerical measures of toxicity Product Information

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



ATEmix (oral) 665.00 mg/kg ATEmix (dermal) 2,706.00 mg/kg (ATE) ATEmix (inhalation-gas) 11,953.00 ppm (4 hr) ATEmix (inhalation-dust/mist) 3.90 mg/l ATEmix (inhalation-vapor) 28.32 ATEmix

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
2-Butoxyethanol 111-76-2		96h LC50: = 1490 mg/L (Lepomis macrochirus) 96h LC50: = 2950 mg/L (Lepomis macrochirus)		48h EC50: > 1000 mg/L 24h EC50: 1698 - 1940 mg/L
n-Propyl alcohol 71-23-8		96h LC50: = 4480 mg/L (Pimephales promelas)	EC50 = 17700 mg/L 5 min EC50 = 45000 mg/L 5 h EC50 = 8686 mg/L 15 min EC50 = 980 mg/L 12 h	48h EC50: 3339 - 3977 mg/L 48h EC50: = 3642 mg/L
n-Butyl alcohol 71-36-3	72h EC50: > 500 mg/L (Desmodesmus subspicatus) 96h EC50: > 500 mg/L (Desmodesmus subspicatus)	96h LC50: 1730 - 1910 mg/L (Pimephales promelas) 96h LC50: = 1910000 μg/L (Pimephales promelas) 96h LC50: 100000 - 500000 μg/L (Lepomis macrochirus) 96h LC50: = 1740 mg/L (Pimephales promelas)	EC50 = 2041.4 mg/L 5 min EC50 = 2186 mg/L 30 min EC50 = 3980 mg/L 24 h EC50 = 4400 mg/L 17 h	48h EC50: = 1983 mg/L 48h EC50: 1897 - 2072 mg/L
Carbon black 1333-86-4		(**************************************		24h EC50: > 5600 mg/L
Ethyl alcohol 64-17-5		96h LC50: > 100 mg/L (Pimephales promelas) 96h LC50: 13400 - 15100 mg/L (Pimephales promelas) 96h LC50: 12.0 - 16.0 mL/L (Oncorhynchus mykiss)	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	48h LC50: 9268 - 14221 mg/L 48h EC50: = 2 mg/L 24h EC50: = 10800 mg/L
Toluene 108-88-3	12.5 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 15.22 - 19.05 mg/L (Pimephales promelas) 96h LC50: 5.89 - 7.81 mg/L (Oncorhynchus mykiss) 96h LC50: 14.1 - 17.16 mg/L (Oncorhynchus mykiss) 96h LC50: = 12.6 mg/L (Pimephales promelas) 96h LC50: = 5.8 mg/L (Oncorhynchus mykiss) 96h LC50: 11.0 - 15.0 mg/L (Lepomis macrochirus) 96h LC50: = 54 mg/L (Oryzias latipes) 96h LC50: = 28.2 mg/L (Poecilia reticulata) 96h LC50: 50.87 - 70.34 mg/L (Poecilia reticulata)	EC50 = 19.7 mg/L 30 min	48h EC50: 5.46 - 9.83 mg/L 48h EC50: = 11.5 mg/L
Isopropyl alcohol 67-63-0	96h EC50: > 1000 mg/L (Desmodesmus subspicatus) 72h EC50: > 1000 mg/L (Desmodesmus subspicatus)	96h LC50: > 1400000 µg/L (Lepomis macrochirus) 96h LC50: = 11130 mg/L		48h EC50: = 13299 mg/L
Solvent naphtha (petroleum), light aliphatic 64742-89-8	72h EC50: = 4700 mg/L (Pseudokirchneriella subcapitata)			
n-Propyl acetate 109-60-4		96h LC50: 56 - 64 mg/L (Pimephales promelas)		24h EC50: = 318 mg/L

Persistence and Degradability No information available.



Bioaccumulation

Chemical Name	Log Pow	
2-Butoxyethanol	0.81	
111-76-2		
n-Propyl alcohol	0.34	
71-23-8		
n-Butyl alcohol	0.785	
71-36-3		
Ethyl alcohol	-0.32	
64-17-5		
Toluene	2.65	
108-88-3		
Isopropyl alcohol	0.05	
67-63-0		

Other adverse effects No information available



13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR
	261).

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number D001 U031 U112 U220

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
n-Butyl alcohol		Included in waste stream:		U031
71-36-3		F039		
Toluene	U220	Included in waste streams:		U220
108-88-3		F005, F024, F025, F039,		
		K015, K036, K037, K149,		
		K151		

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene			Toxic waste	
108-88-3			waste number F025	
			Waste description:	
			Condensed light ends, spent	
			filters and filter aids, and	
			spent desiccant wastes from	
			the production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free radical	
			catalyzed processes.	
			These chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
n-Propyl alcohol	Toxic
71-23-8	Ignitable
n-Butyl alcohol	Toxic
71-36-3	
Ethyl alcohol	Toxic
64-17-5	Ignitable
Toluene	Toxic
108-88-3	Ignitable
Isopropyl alcohol	Toxic
67-63-0	Ignitable
n-Propyl acetate	Toxic
109-60-4	Ignitable

14. TRANSPORT INFORMATION

DOT

UN-No.

UN1210



Proper Shipping Name Hazard Class Packing Group Description Emergency Response Guide Number	PRINTING INK 3 I UN1210, PRINTING INK, 3, I 129
<u>TDG</u> UN-No. Proper Shipping Name Hazard Class Packing Group Description	UN1210 PRINTING INK 3 I UN1210, PRINTING INK, 3, I
<u>MEX</u> UN-No. Proper Shipping Name Hazard Class Packing Group Description	UN1210 PRINTING INK 3 I UN1210, PRINTING INK, 3, I
ICAO UN-No. Proper Shipping Name Hazard Class Packing Group Description	UN1210 PRINTING INK 3 I UN1210, PRINTING INK, 3, I
IATA UN-No. Proper Shipping Name Hazard Class Packing Group Description	UN1210 PRINTING INK 3 I UN1210, PRINTING INK, 3, I
IMDG/IMO UN-No. Proper Shipping Name Hazard Class Packing Group EmS-No. Description	UN1210 PRINTING INK 3 I F-E, S-D UN1210, PRINTING INK, 3, I, (23°C C.C.)
<u>RID</u> UN-No. Proper Shipping Name Hazard Class Packing Group Classification code Description	UN1210 PRINTING INK 3 I F1 UN1210, PRINTING INK, 3, I
<u>ADR</u> UN-No. Proper Shipping Name Hazard Class Packing Group	UN1210 PRINTING INK 3 I

Classification code	F1
Tunnel restriction code	(D/E)
Description	UN1210, PRINTING INK, 3, I

ADN

UN-No.	UN1210
Proper Shipping Name	PRINTING INK
Hazard Class	3
Packing Group	I
Classification code	F1
Special Provisions	163
Description	UN1210, PRINTING INK, 3, I
Limited Quantity	500 ML
Ventilation	VE01

15. REGULATORY INFORMATION

International Inventories

TSCA DSL Complies All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or 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 %
2-Butoxyethanol - 111-76-2	111-76-2	15 - 40	1.0
n-Butyl alcohol - 71-36-3	71-36-3	10 - 30	1.0
Toluene - 108-88-3	108-88-3	3 - 7	1.0
Isopropyl alcohol - 67-63-0	67-63-0	3 - 7	1.0
SARA 311/312 Hazard Categories			
Acute Health Hazard	Yes		
Chronic Health Hazard	Yes		
Fire Hazard	Yes		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Toluene	1000 lb	Х	Х	Х
108-88-3				

<u>CERCLA</u>

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)



Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
n-Butyl alcohol 71-36-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Toluene 108-88-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Titanium dioxide - 13463-67-7	Carcinogen
Carbon black - 1333-86-4	Carcinogen
Ethyl alcohol - 64-17-5	Carcinogen
	Developmental
Toluene - 108-88-3	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
2-Butoxyethanol 111-76-2	X	Х	X	Х	Х
n-Propyl alcohol 71-23-8	Х	Х	Х		
Titanium dioxide 13463-67-7	Х	Х	Х		
n-Butyl alcohol 71-36-3	X	Х	Х	Х	
Carbon black 1333-86-4	X	Х	Х		Х
Nitrocellulose 9004-70-0	X	Х	Х		Х
Ethyl alcohol 64-17-5		Х			
Isopropyl alcohol 67-63-0	Х	Х	Х	Х	
Toluene 108-88-3	X	Х	Х	Х	Х
n-Propyl acetate 109-60-4	X	Х	Х		
Ethyl acetate 141-78-6	X	Х	Х	Х	

International Regulations

Mexico

.

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
2-Butoxyethanol		Mexico: TWA 26 ppm
111-76-2 (15 - 40)		Mexico: TWA 120 mg/m ³
		Mexico: STEL 75 ppm
		Mexico: STEL 360 mg/m ³
n-Propyl alcohol		Mexico: TWA 200 ppm
71-23-8(10 - 30)		Mexico: TWA 500 mg/m ³
		Mexico: STEL 250 ppm
		Mexico: STEL 625 mg/m ³
Titanium dioxide		Mexico: TWA= 10 mg/m ³
13463-67-7(10-30)		Mexico: STEL= 20 mg/m ³
n-Butyl alcohol		Mexico: Ceiling 50 ppm
71-36-3(10-30)		Mexico: Ceiling 150 mg/m ³



Carbon black	Mexico: TWA 3.5 mg/m ³
1333-86-4 (10 - 30)	Mexico: STEL 7 mg/m ³
Ethyl alcohol	Mexico: TWA 1000 ppm
64-17-5 (5 - 10)	Mexico: TWA 1900 mg/m ³
Toluene	Mexico: TWA 50 ppm
108-88-3 (3 - 7)	Mexico: TWA 188 mg/m ³
Isopropyl alcohol	Mexico: TWA 400 ppm
67-63-0 (3 - 7)	Mexico: TWA 980 mg/m ³
	Mexico: STEL 500 ppm
	Mexico: STEL 1225 mg/m ³
n-Propyl acetate	Mexico: TWA 200 ppm
109-60-4 (1-5)	Mexico: TWA 840 mg/m ³
	Mexico: STEL 250 ppm
	Mexico: STEL 1050 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada WHMIS Hazard Class B2 - Flammable liquid D2A - Very toxic materials D2B - Toxic materials



16. OTHER INFORMATION

NFPA HMIS	Health Hazards3FlammabilityHealth Hazards3 *Flammability	Instability 0 Physical Hazard 0	Physical and Chemical Hazards - Personal Protection X
Chronic Hazard Star	Legend * = Chronic Health Hazard		X
Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501		
Revision Date Revision Note	06-Mar-2015 New format		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. While the information is believed to be accurate, Pro ColorFlex Ink Corporation makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Pro ColorFlex Ink Corporation's control and therefore users are responsible to verify this data under their own operating conditions to determine if the product is suitable for their particular purposes, and they assume all risks of their use, safe handling, processing, storage, transportation, disposal and release of the product.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



End of Safety Data Sheet

