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SAFETY DATA SHEET

Pro ColorFlex Ink Corporation
3588 Arden Road
Hayward, CA 94545
Tel: 510-293-3033 Fax: 510-293-3038

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

Product identifier

TR-2121

Product Name

HYBRID INK CLEANER/ULTRA CLEAN

Other means of identification

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

Pro Colorflex Ink Corp

Supplier Address

3588 Arden Road

Hayward

CA

94545

US

Supplier Phone Number

Phone:800-485-2605

Fax:510-293-3038

Contact Phone510-293-3033

sales@procolorflex.com

800-485-2605 M - F 8:00AM - 4:30PM

Emergency telephone number

2. HAZARDS IDENTIFICATION

Classification

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





Unknown Toxicity
36% of the mixture consists of ingredient(s) of unknown toxicity

Not applicable

Hazards not otherwise classified (HNOC)

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Precautionary Statements - Storage
None

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

Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Precautionary Statements - Response
Get medical advice/attention if you feel unwell

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Wear eye/face protection

Signal word	Warning
Hazard Statements	May cause damage to organs through prolonged or repeated exposure Causes serious eye irritation Harmful if swallowed
Appearance	Color
Physical State	Liquid
Odor	Slight glycol ether

Emergency Overview

GHS Label elements, including precautionary statements

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (repeated exposure)	Category 2



Notes to Physician

Treat symptomatically.

Indication of any immediate medical attention and special treatment needed

Effects

Most Important Symptoms and Burning sensation.

Most important symptoms and effects, both acute and delayed

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.

Inhalation
Remove to fresh air.

Skin Contact
Wash with soap and water.

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

General Advice

Show this safety data sheet to the doctor in attendance.

First aid measures

4. FIRST AID MEASURES

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

Chemical Name	CAS No	Weight-%	Trade Secret
Diethylene glycol	111-46-6	25 - 35	*
Diethylene glycol monobutyl ether	112-34-5	35 - 65	*

3. COMPOSITION/INFORMATION ON INGREDIENTS

Other information

May be harmful in contact with skin

Interactions with Other Chemicals

No information available.



Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

Environmental Precautions
Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions
Refer to protective measures listed in Sections 7 and 8.

Other Information
Refer to protective measures listed in Sections 7 and 8.

Personal Precautions
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas.

Personal precautions, protective equipment and emergency procedures

6. ACCIDENTAL RELEASE MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical
No information available.

Uniform Fire Code
Irritant: Liquid

Hazardous Combustion Products
Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5. FIRE-FIGHTING MEASURES



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.

Skin and Body Protection
Repeated or prolonged contact. Wear protective gloves and protective clothing. None required for consumer use.

Eye/Face Protection
If splashes are likely to occur. Wear safety glasses with side shields (or goggles). None required for consumer use.

Individual protection measures, such as personal protective equipment

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Appropriate engineering controls

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

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm inhalable fraction and vapor	-	

Exposure Guidelines

Control parameters

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Incompatible Products
None known based on information supplied.

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

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.

Precautions for safe handling

7. HANDLING AND STORAGE



9. PHYSICAL AND CHEMICAL PROPERTIES

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.

Physical and Chemical Properties

Property	Values	Remarks	Method
Physical State	Liquid		
Appearance	Color		
Color	Various colors		
Odor		Odor	Slight glycol ether
Odor Threshold		Odor Threshold	No information available
pH	UNKNOWN		
Melting / freezing point	No data available		None known
Boiling point / boiling range	No data available		None known
Flash Point	No data available		None known
Evaporation Rate	No data available		None known
Flammability Limit in Air	No data available		None known
Upper flammability limit	No data available		None known
Lower flammability limit	No data available		None known
Vapor pressure	No data available		None known
Vapor density	No data available		None known
Specific Gravity	No data available		None known
Water Solubility	Insoluble in water		None known
Solubility in other solvents	No data available		None known
Partition coefficient: n-octanol/water	No data available		None known
Autoignition temperature	No data available		None known
Decomposition temperature	No data available		None known
Kinematic viscosity	No data available		None known
Dynamic viscosity	No data available		None known
Explosive properties	No data available		None known
Oxidizing Properties	No data available		None known
Other Information			
Softening Point	No data available		
VOC Content (%)	No data available		
Particle Size	No data available		
Particle Size Distribution	No data available		



Information on toxicological effects

Chemical Name	Diethylene glycol	111-46-6	
Oral LD50	= 12565 mg/kg (Rat)		
Dermal LD50	= 11890 mg/kg (Rabbit)		
Inhalation LC50	-		

Component Information

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).

Skin Contact
Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

Eye Contact
Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. May cause redness, itching, and pain. May cause temporary eye irritation.

Inhalation
Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Product Information

Information on likely routes of exposure

11. TOXICOLOGICAL INFORMATION

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
None known based on information supplied.

Incompatible materials
None known based on information supplied.

Hazardous Decomposition Products
Carbon oxides.

10. STABILITY AND REACTIVITY



ATEmix (oral)
571.00 mg/kg
ATEmix (dermal)
3,301.00 mg/kg (ATE)

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

Numerical measures of toxicity Product Information

Aspiration Hazard	No information available.
Target Organ Effects	Eyes, Respiratory system, Skin, Gastrointestinal tract (GI), Lymphatic System, Kidney, Liver, Lungs.
Chronic Toxicity	Contains a known or suspected carcinogen. Avoid repeated exposure. Prolonged exposure may cause chronic effects. May cause adverse liver effects.
STOT - repeated exposure	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).
STOT - single exposure	No information available.
Reproductive Toxicity	No information available.
Carcinogenicity	This product may contain trace chemical/s below reportable levels of 0.1% known to the State of California to cause cancer and/or birth defects or other reproductive harm.
Mutagenic Effects	No information available.
Sensitization	No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Symptoms
May cause redness and tearing of the eyes.



DOT Proper Shipping Name: NOT REGULATED
 Hazard Class: N/A
TDG Not regulated
MEX Not regulated

14. TRANSPORT INFORMATION

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

Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Waste treatment methods

13. DISPOSAL CONSIDERATIONS

Other adverse effects
No information available.

Chemical Name Diethylene glycol 111-46-6	Log Pow -1.98
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Bioaccumulation

Persistence and Degradability
No information available.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Diethylene glycol 111-46-6	96h LC50: = 75200 mg/L (Pimphales promelas)	96h LC50: = 29228 mg/L 15 min	EC50 = 29228 mg/L 15 min	48h EC50: = 84000 mg/L
Diethylene glycol monobutyl ether 112-34-5	96h EC50: > 100 mg/L (Desmodesmus subspicatus)	96h LC50: = 1300 mg/L (Lepomis macrochirus)		24h EC50: = 2850 mg/L 48h EC50: > 100 mg/L

Ecotoxicity
The environmental impact of this product has not been fully investigated.

12. ECOLOGICAL INFORMATION



CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden release of pressure hazard No
Reactive Hazard No

SARA 311/312 Hazard Categories

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Diethylene glycol monobutyl ether - 112-34-5	112-34-5	30 - 60	1.0

SARA 313
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

US Federal Regulations

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

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

International Inventories

15. REGULATORY INFORMATION

ICAO	Not regulated
IATA	Not regulated
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
IMDG/IMO	Not regulated
Hazard Class	N/A
RID	Not regulated
ADR	Not regulated
ADN	Not regulated



Prepared By Pro Colorflex Ink Corp.
3588 Arden Road
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Revision Note

Chronic Hazard Star Legend * = Chronic Health Hazard
NFA Health Hazards 2 Flammability 0
Instability 0
HMIS Health Hazards 2 * Flammability 0
Physical Hazard 0
Chemical Hazards -
Personal Protection X

16. OTHER INFORMATION



Canada
WHMIS Hazard Class
D2B - Toxic materials

Component	Carcinogen Status	Exposure Limits
2-Butoxyethanol 111-76-2 (0.1% - 0.7%)		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m ³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Mexico
National occupational exposure limits

International Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Diethylene glycol 111-46-6			X		
Diethylene glycol monobutyl ether 112-34-5			X	X	X
Butoxyethanol 111-76-2	X	X	X	X	X

U.S. State Right-to-Know Regulations

Chemical Name	California Proposition 65
1,4-Dioxane 123-91-1	Carcinogen
Ethanol, 2-methoxy- 109-86-4	Developmental

California Proposition 65
This product contains the following Proposition 65 chemicals.

US State Regulations



End of Safety Data Sheet

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.