ColDesi
Achieving Dreams Together

SAFETY DATA SHEET

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

Product Name	:	Compress UV(445-S) Hybrid Ink - Cyan
Product IDN	:	CI-HYB-C500
Material Uses	:	Ink for use in an ink jet process.
Manufacturer	:	ColDesi / Colman & Company, Inc., 12198 44th Street North, Clearwater, FL 33762, USA Phone: 800-891-1094 In Emergency, call CHEMTREC , in US or Canada, call 800-424-9300, Outside of US or Canada, call 703-527-3887.
Date Issued	:	January 31, 2024

2. HAZARD IDENTIFICATION

2.1 Classifications

Classification according to GHS

GHS09 Environment:

Chronic aq. tox. Cat. 1: H410

GHS07

Acute Tox. Cat.4: H302
Skin.Corr. Cat.1C: H314
EyeDam. Cat. 1 - H318
STOT-SE Cat. 3: H335

GHS08 Health Hazard

Repr. Cat. 1B: H360

2.2 Label Elements:

Labeling according to GHS

Hazard pictograms

Signal Word: Danger

Hazard Statements:
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H360: May damage fertility or the unborn child.
H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements:
PREVENTION:
P203: Obtain, read and follow all safety instructions before use.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264 + P265: Wash hands thoroughly after handling. Do not touch eyes.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves.

RESPONSE:
P301+P317: IF SWALLOWED: Get emergency medical help.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P361+P354: IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P318: If exposed or concerned, get medical advice.
P363: Wash contaminated clothing before reuse.
P391: Collect spillage.

STORAGE:
P405: Store locked up.

DISPOSAL:
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards
Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture
Inkjet printing ink in organic solvents.

Ingredients	CAS No	EC Number	Reach Registration Number	Percent (%)	Classification GHS (Rev 5)
Colorant	Trade Secret	-	-	1-5%	-
1,6 - Hexanediol Diacrylate	13048-33-4	235-921-9	Registered	10-20%	SkinIrrit.2: H315 SkinSens.1: H317 EyeIrrit.2: H319
Proprietary Monomer	Proprietary	Proprietary	Registered	10-20%	SkinIrrit.2: H315 EyeDam.1: H318 Acute Tox.4: H302 STOT SE 3: H335
2,4,6-trimethylbenzoyl – diphenyl phosphine oxide	75980-60-8	278-355-8	Registered	1-5%	Repr. tox. Cat. 2: H361
Bis (2,4,6-trimethyl benzoyl) phenyl phosphine oxide	162881-26-7	423-340-5	Registered	1-5%	Skin Sens. Cat.1A: H317 Chronic aq. tox. Cat. 4: H413
2-isopropyl-9H-thioxanthen-9-one	5495-84-1	226-827-9	Pending	<1%	Repr. tox. Cat. 2: H361 Chronic aq. tox. Cat. 1: H410
Ph(EO)A	48145-04-6	256-360-6	Registered	5-10%	Skin sens. Cat. 1A: H317 Repr. tox. Cat. 2: H361 Chronic aq. tox. Cat. 2: H411
Aliphatic epoxy diacrylate	Proprietary	Proprietary	Registered	<1%	Acute tox. [Oral] Cat. 4 - H302 Serious eye dam. Cat. 1 - H318 Skin sens. Cat. 1A - H317 Chronic aq.tox. Cat. 3 - H412
Polymerization inhibitor in acrylic acid ester	Proprietary	Proprietary	Registered	<1%	Serious eye dam.Cat. 2A: H319 Skin sens. Cat. 1: H317 Chronic aq. tox. Cat. 2: H411
Stabilizer	Proprietary	Proprietary	Registered	<2%	EyeIrrit.2: H319 SkinSens.1: H317

Acrylated Oligoamine	Proprietary	Proprietary	Registered	1-5%	SkinIrrit.2: H315 SkinSens.1: H317 EyeIrrit.2: H319 Aquatic Chronic 3: H412
Polyester Acrylate	Proprietary	Proprietary	Pending	1-5%	SkinIrrit.1: H317 EyeIrrit.2: H319 Aquatic Chronic 3: H412
Tetrahydrofurfuryl acrylate	2399-48-6	219-268-7	Registered	50-60%	Acute Tox.4: H302 Skin.Corr.1C: H314 Repr.1B: H360 Aquatic Chronic 2: H411

4. FIRST AID MEASURES

4.1 Description

Inhalation : If inhaled move to fresh air. Respiratory irritation may occur, if symptoms develop seek medical attention. If not breathing, give artificial respiration preferably mouth to mouth.

Ingestion : Give two glasses of water and monitor closely. Call a poison control center, emergency room, or physician before trying to induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Skin Contact : In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms appear.

Eye Contact : Do not rub eyes. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Potential Health Effects

Eye Contact: Causes severe eye injury which may persist for several days.

Inhalation: Exposure to vapors (mist) may be harmful to the unborn child and at the risk of impaired fertility and irritate nose, throat/respiratory system.

Skin Contact: Contact with skin may cause irritation, swelling or redness, allergy and/or sensitization.

Ingestion: May cause injury of mouth, throat, and stomach.

Over Exposure Signs/Symptoms

Eye Contact: No specific data.

Inhalation: No specific data.

Skin Contact: No specific data.

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Alcohol-resistant foam, dry chemical, carbon dioxide (CO_2), water spray.

5.2 Special Hazards arising from the substance or mixture

Carbon Oxides

5.3 Advice for Fire-Fighters

Use breathing apparatus with independent air supply.
Protective suit.

5.4 Further Information

Use water spray to cool unopened containers.

5.5 NFPA Ratings

Health:2 Flammability: 2 Reactivity: 1
Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Handling : Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition- No smoking.
Take measures to prevent the buildup of electrostatic charge.

7.2 Conditions for safe storage	: Store in cool place and away from light. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses	: no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameter

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment

[Respiratory Protection]: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such NIOSH (US) or CEN (EU).

[Body Protection]: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

[Skin Protection]: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

[Eye/face Protection]: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	: Cyan
Odor	: Slight odor
Boiling Point/boiling range of ink	: No data available
Melting Point/melting range	: No data available
Flash Point of ink	: No data available
Auto-Ignition Temperature	: No data available
Flammability (solid, gas)	: Not Applicable
Specific Gravity	: No data available
Vapor Density	: Not Applicable

Vapor Pressure	: No data available
Explosive Properties	: No data available.
Solubility	: Easily soluble
Water Solubility	: No data available.
Viscosity	: Not applicable
pH	: No data available.
VOCs	: No data available
Oxidizing Properties	: No data available

The physical and chemical data given in Section 9 are typical values for this product and are not intended to be product specifications.

10. STABILITY AND REACTIVITY

10.1 Reactivity : High temperatures and UV light cause rapid polymerization
10.2 Chemical Stability : Unstable. Polymerizes under heat and light
10.3 Possibility of hazardous reactions : No data available
10.4 Conditions to avoid : Heat, flames, sparks, direct exposure to light
10.5 Incompatible materials : Strong oxidizing agents, strong bases, water
10.6 Hazardous decomposition products : Other decomposition products – no data available

11. TOXICOLOGICAL INFORMATION

11.1 Routes of Overexposure : Eye, skin, inhalation, and oral ingestion

11.2 Health Hazards:

Acute Health Hazards : Overexposure of the eye surface to ink may be mildly irritating. Overexposure of ink contact with the skin may cause irritation and, in some people, swelling and redness. Intentional inhalation of ink vapors may result in respiratory tract irritation. Intentional or accidental oral ingestion may cause an upset stomach

Chronic Health Hazards : No information available
Mutagenicity : No information available
Carcinogenicity : No information available

11.3 Toxicity:

Acute Toxicity Data : No information
Inhalation : No information
Irritating : No information
Sensitization : Not available
Reproductive Toxicity : Not available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	: Aquatic toxicity: No further information available
12.2 Persistence and Degradability	: No further relevant information available
12.3 Bioaccumulation Potential	: No further relevant information available
12.4 Mobility in Soil	: No further relevant information available
12.5 Results of PBT and vPvB Assessment	: PBT: Not applicable : vPvB: Not applicable
12.6 Other Adverse Effects	: No further relevant information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal

: **Product**
Waste must be disposed of according to the applicable state, federal, and local regulations.
: **Contaminated Packaging**
Dispose of as unused product

14. TRANSPORTATION INFORMATION

United States DOT Domestic Surface, USA, ICAO/IATA AIR, IMO/IMDG OCEAN, ADR, or RID

14.1 UN Number	: UN3082
14.2 UN Proper Shipping Name	**:** Environmentally Hazardous Substance, Liquid, N.O.S. [Acrylic Monomers].
14.3 Transport Hazard Class(es)	**:** ADR, IMDG, IATA – Class 9
14.4 Packaging Group	**:** III
14.5 Environmental Hazards	**:** Yes
14.6 Special Precautions for User	**:** Transport and storage of the product in accordance with general precautions and instructions mentioned in this SDS
14.7 Other Information	**:** Inner packaging less than 5L or 5Kg is exempted from Dangerous Goods. Special Provision A197
14.8 DOT	**:** Not regulated as Dangerous Goods when transported by road in the United States.

15. REGULATORY INFORMATION

U.S Federal Regulations	**:** Not available.
OSHA	**:** This product is classified as an OSHA hazardous material.
CERCLA: SARA Hazard Category	**:** Acute Hazard
Section 313	: *Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.
International Regulations	**:** Not available.
Canadian WHMIS	**:** Not available**.**
Canadian Environmental Protection Act	**:** Not available**.**
EINECS	**:** Not available**.**
State Regulations	**:** Not available.

State of California Proposition 65 **:** This product does not contain any chemicals known to the state of California to cause cancer, birth, or any other reproductive defects

16. OTHER INFORMATION

The information in this Safety Data Sheet (SDS) is believed to be correct to the best of our knowledge, information and belief at the date of its publication. The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. ColDesi / Colman & Company, Inc. does not warrant the completeness or accuracy of the information contained herein.

Issue Date: January 31, 2024
Version: 1.00 English