

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Printing date 05/18/2021

Version: 1.0

Reviewed on 05/18/2021

### \* 1 Identification

**Product identifier****Product name:** Cool White UV LED Adherent Ink**Article number:** 0CJ2xx**Details of the supplier of the safety data sheet**

CET Color

4450 Commerce Dr. SW

Atlanta, GA 30336 - USA

1-404-228-1259

**Manufacturer/Supplier:**

CET Color

4450 Commerce Dr. SW

Atlanta, GA 30336

USA

**Emergency telephone number:** CHEMTREC 1-800-424-9300

### 2 Hazard(s) identification

**Classification of the substance or mixture**

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 2 H351 Suspected of causing cancer.

Repr. 1B H360 May damage fertility or the unborn child.

STOT SE 3 H336 May cause drowsiness or dizziness.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

**Label elements****GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).**Hazard pictograms**

GHS05 GHS07 GHS08

**Signal word** Danger**Hazard-determining components of labeling:**

4-(1-oxo-2-propenyl)-morpholine

Tetrahydrofurfuryl Acrylate

titanium dioxide

3,3,5-Trimethylcyclohexyl acrylate

Neopentylglycol(PO)2 Diacrylate

Isobornyl Acrylate

hexamethylene diacrylate

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**Product name: Cool White UV LED Adherent Ink**

propylidynetrimethanol, propoxylated, esters with acrylic acid

## Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of causing cancer.

May damage fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

## Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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/doctor.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

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

Store locked up.

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

## Additional information:

6.3 % of the mixture consists of component(s) of unknown toxicity.

## 3 Composition/information on ingredients

### Chemical characterization: Mixtures

**Description:** Mixture of the substances listed below with nonhazardous additions.

### Dangerous components:

5117-12-4 4-(1-oxo-2-propenyl)-morpholine	10 - 25%
STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317	
86178-38-3 3,3,5-Trimethylcyclohexyl acrylate	10 - 25%
Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317; STOT SE 3, H336	
13463-67-7 titanium dioxide	≥ 10 - ≤ 25%
Carc. 2, H351	
2399-48-6 Tetrahydrofurfuryl Acrylate	2.5 - 10%
Repr. 1B, H360; Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317; Flam. Liq. 4, H227	

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84170-74-1 Neopentylglycol(PO)2 Diacrylate	≥ 2.5 - ≤ 10%
Skin Sens. 1, H317	
5888-33-5 Isobournyl Acrylate	2.5 - 10%
Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
13048-33-4 hexamethylene diacrylate	2.5 - 10%
Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
53879-54-2 propylidynetrimethanol, propoxylated, esters with acrylic acid	2.5 - 10%
Eye Irrit. 2A, H319; Skin Sens. 1, H317	
75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	2.5 - 10%
Repr. 2, H361	

### Additional information:

The specific chemical identity of composition and exact percentage is being withheld as a trade secret. The specific chemical identity and exact percentage is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of paragraph §1910.1200.

## 4 First-aid measures

### Description of first aid measures

#### General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

#### After swallowing:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

#### Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

### Extinguishing media

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Special hazards arising from the substance or mixture** No further relevant information available.

### Advice for firefighters

**Protective equipment:** No special measures required.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

### Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

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**Product name: Cool White UV LED Adherent Ink****Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

**Handling:****Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

**Information about protection against explosions and fires:** Keep respiratory protective device available.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

**13048-33-4 hexamethylene diacrylate**WEEL Long-term value: 1 mg/m<sup>3</sup>

DSEN

**Additional information:** The lists that were valid during the creation were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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## Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance:

**Form:**

Liquid

**Color:**

White

**Odor:**

Characteristic

**Odor threshold:**

Not determined.

**pH-value:**

Not determined.

#### Change in condition

**Melting point/Melting range:**

Undetermined.

**Boiling point/Boiling range:**

Undetermined.

**Flash point:**

Not applicable.

**Flammability (solid, gaseous):**

Not applicable.

**Decomposition temperature:**

Not determined.

**Auto igniting:**

Product is not selfigniting.

**Danger of explosion:**

Product does not present an explosion hazard.

**Explosion limits:**

**Lower:**

Not determined.

**Upper:**

Not determined.

**Vapor pressure:**

Not determined.

**Density:**

Not determined.

**Relative density**

Not determined.

**Vapor density**

Not determined.

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**Product name: Cool White UV LED Adherent Ink**

**Evaporation rate** Not determined.

**Solubility in / Miscibility with Water:** Fully miscible.

**Partition coefficient (n-octanol/water):** Not determined.

**Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Other information** No further relevant information available.

## 10 Stability and reactivity

**Reactivity** No further relevant information available.

**Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

Oral LD50 < 962 mg/kg

Dermal LD50 > 50,000 mg/kg (rab)

**5117-12-4 4-(1-oxo-2-propenyl)-morpholine**

Oral LD50 500 mg/kg (ATE)

**13463-67-7 titanium dioxide**

Oral LD50 > 20,000 mg/kg (rat)

Dermal LD50 > 10,000 mg/kg (rabbit)

Inhalative LC50/4 h mg/l (rat)

**2399-48-6 Tetrahydrofurfuryl Acrylate**

Oral LD50 928 mg/kg (rat)

**13048-33-4 hexamethylene diacrylate**

Oral LD50 > 5,000 mg/kg (rat)

Dermal LD50 > 3,000 mg/kg (rab)

**53879-54-2 propylidynetrimethanol, propoxylated, esters with acrylic acid**

Oral LD50 > 2,000 mg/kg (rat)

**Primary irritant effect:**

**on the skin:** Caustic effect on skin and mucous membranes.

**on the eye:** Strong caustic effect.

**Sensitization:** Sensitization possible through skin contact.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

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**Product name: Cool White UV LED Adherent Ink**

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## Carcinogenic categories

### IARC (International Agency for Research on Cancer)

13463-67-7 titanium dioxide: 2B

108-88-3 Toluene: 3

123-35-3 Myrcene: 2B

100-41-4 ethylbenzene: 2B

127-19-5 N,N-dimethylacetamide: 2B

### NTP (National Toxicology Program)

None of the ingredients is listed.

### OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

### Behavior in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

### Ecotoxicological effects:

**Remark:** Toxic for fish

### Additional ecological information:

#### General notes:

Not hazardous for water.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### Waste treatment methods

#### Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

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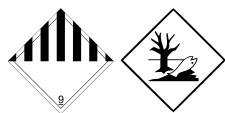
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**Product name: Cool White UV LED Adherent Ink**

## 14 Transport information

<b>UN-Number</b>	
<b>DOT</b>	not regulated
<b>IMDG, IATA</b>	UN3082
<b>UN proper shipping name</b>	
<b>DOT</b>	not regulated
<b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-Trimethylcyclohexyl acrylate, Tetrahydrofurfuryl Acrylate), MARINE POLLUTANT
<b>IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-Trimethylcyclohexyl acrylate, Tetrahydrofurfuryl Acrylate)
<b>Transport hazard class(es)</b>	
<b>DOT</b>	
<b>Class</b>	not regulated

**IMDG, IATA**



<b>Class</b>	9
<b>Label</b>	Miscellaneous dangerous substances and articles
<b>Packing group</b>	9
<b>DOT</b>	not regulated
<b>IMDG, IATA</b>	III
<b>Environmental hazards:</b>	
<b>Marine pollutant:</b>	Symbol (fish and tree)
<b>Special marking (IATA):</b>	Symbol (fish and tree)
<b>Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles
<b>Hazard identification number (Kemler code):</b>	90
<b>EMS Number:</b>	F-A,S-F
<b>Stowage Category</b>	A
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

**Transport/Additional information:**

<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Excepted quantities (EQ)</b>	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
<b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-TRIMETHYLCYCLOHEXYL ACRYLATE, TETRAHYDROFURFURYL ACRYLATE), 9, III



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## 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

### SARA

#### **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

#### **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

### **TSCA (Toxic Substances Control Act):**

5117-12-4 4-(1-oxo-2-propenyl)-morpholine: ACTIVE

86178-38-3 3,3,5-Trimethylcyclohexyl acrylate: ACTIVE

13463-67-7 titanium dioxide: ACTIVE

84170-74-1 Neopentylglycol(PO)2 Diacrylate: ACTIVE

5888-33-5 Isobournyl Acrylate: ACTIVE

13048-33-4 hexamethylene diacrylate: ACTIVE

53879-54-2 propylidynetrimethanol, propoxylated, esters with acrylic acid: ACTIVE

75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide: ACTIVE

### **Hazardous Air Pollutants**

108-88-3 Toluene

100-41-4 ethylbenzene

### **Proposition 65**

#### **Chemicals known to cause cancer:**

13463-67-7 titanium dioxide

123-35-3 Myrcene

100-41-4 ethylbenzene

127-19-5 N,N-dimethylacetamide

#### **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

#### **Chemicals known to cause reproductive toxicity for males:**

127-19-5 N,N-dimethylacetamide

#### **Chemicals known to cause developmental toxicity:**

108-88-3 Toluene

127-19-5 N,N-dimethylacetamide

### **Carcinogenic categories**

#### **EPA (Environmental Protection Agency)**

110-82-7 cyclohexane: I

108-88-3 Toluene: II

100-41-4 ethylbenzene: D

#### **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7 titanium dioxide: A4

108-88-3 Toluene: A4

100-41-4 ethylbenzene: A3

127-19-5 N,N-dimethylacetamide: A4

#### **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7 titanium dioxide

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

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## Hazard pictograms



GHS05 GHS07 GHS08

**Signal word** Danger

## Hazard-determining components of labeling:

4-(1-oxo-2-propenyl)-morpholine  
Tetrahydrofurfuryl Acrylate  
titanium dioxide  
3,3,5-Trimethylcyclohexyl acrylate  
Neopentylglycol(PO)2 Diacrylate  
Isobornyl Acrylate  
hexamethylene diacrylate  
propylidynetrimethanol, propoxylated, esters with acrylic acid

## Hazard statements

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Suspected of causing cancer.  
May damage fertility or the unborn child.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.

## Precautionary statements

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dusts or mists.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Call a poison center/doctor if you feel unwell.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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/doctor.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see on this label).  
Get medical advice/attention if you feel unwell.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

H227 Combustible liquid.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H351 Suspected of causing cancer.  
 H360 May damage fertility or the unborn child.  
 H361 Suspected of damaging fertility or the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.

### Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 Flam. Liq. 4: Flammable liquids – Category 4  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1B: Skin sensitisation – Category 1B  
 Carc. 2: Carcinogenicity – Category 2  
 Repr. 1B: Reproductive toxicity – Category 1B  
 Repr. 2: Reproductive toxicity – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

**\* Data compared to the previous version altered.**