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**SECTION 1. IDENTIFICATION**

Product name : Revo EZ Coat 4001 UV GLOSS COATING FOR DIGITAL TONERS

Product Use Description : UV GLOSS COATING FOR DIGITAL TONERS

**Manufacturer or supplier's details**

Company : Lloyd's of Indiana  
2507 Roosevelt Ave  
Indianapolis, IN 46218

Telephone : 877-626-6848

Visit our web site : lloydsfindiana.com

Emergency telephone number : US & Canada 800-222-1222

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H351 Suspected of causing cancer.  
H361f Suspected of damaging fertility.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.

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P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 15 %

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

Component	CAS-No.	Concentration (%)
hexamethylene diacrylate	13048-33-4	>= 10 - < 30
2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	15625-89-5	>= 10 - < 30
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	>= 5 - < 10
benzophenone	119-61-9	>= 1 - < 5
2-Propenoic acid, 3-(C8-10-alkyloxy)-2-hydroxypropyl esters	364059-77-8	>= 1 - < 5
acrylic acid, monoester with propane-1,2-diol	25584-83-2	>= 0.1 - < 1
octamethylcyclotetrasiloxane	556-67-2	>= 0.1 - < 1

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## SECTION 4. FIRST AID MEASURES

- |                         |  |
|-------------------------|--|
| General advice          | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.   |
| If inhaled              | : If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| In case of skin contact | : If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.   |
| In case of eye contact  | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.  |
| If swallowed            | : Induce vomiting immediately and call a physician.<br>Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

## SECTION 5. FIREFIGHTING MEASURES

- |   |   |
|---|---|
| Unsuitable extinguishing media                | : High volume water jet   |
| Further information                           | : Standard procedure for chemical fires.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.  |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.  |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.                             |

## SECTION 7. HANDLING AND STORAGE

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- Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
hexamethylene diacrylate	13048-33-4	TWA	1 mg/m <sup>3</sup>	US WEEL
2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl] diacrylate	15625-89-5	TWA	1 mg/m <sup>3</sup>	US WEEL
benzophenone	119-61-9	TWA	0.5 mg/m <sup>3</sup>	US WEEL
octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	US WEEL

Hazardous components without workplace control parameters

### Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Remarks : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
- Eye protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Skin and body protection : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.
- Hygiene measures

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: dispersion
Colour	: milky, off-white
Odour	: characteristic, acrylic-like
pH	: No data available
Flash point	: > 200 °F (> 93 °C)
Density	: 9 lb/gal

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

##### Components:

##### **13048-33-4 hexamethylene diacrylate:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

##### **15625-89-5 2-ethyl-2-[(1-oxoallyl)oxy]methyl-1,3-propanediyl diacrylate:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

##### **119-61-9 benzophenone:**

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

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LD50 (Mouse): 2,895 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3,535 mg/kg

## Skin corrosion/irritation

### Product:

Remarks: May cause skin irritation and/or dermatitis.

### Components:

#### **13048-33-4 hexamethylene diacrylate:**

Species: Rabbit

Result: Severe skin irritation

#### **15625-89-5 2-ethyl-2-[(1-oxoallyl)oxy]methyl-1,3-propanediyl diacrylate:**

Species: Rabbit

Result: Skin irritation

#### **42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate:**

Species: Rabbit

Result: No skin irritation

#### **556-67-2 octamethylcyclotetrasiloxane:**

Species: Rabbit

Result: slight irritation

## Serious eye damage/eye irritation

### Product:

Remarks: May cause irreversible eye damage.

### Components:

#### **13048-33-4 hexamethylene diacrylate:**

Species: Rabbit

Result: Severe eye irritation

#### **15625-89-5 2-ethyl-2-[(1-oxoallyl)oxy]methyl-1,3-propanediyl diacrylate:**

Species: Rabbit

Result: Eye irritation

Method: Draize Test

#### **42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate:**

Species: Rabbit

Result: Severe eye irritation

#### **556-67-2 octamethylcyclotetrasiloxane:**

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Species: Rabbit  
Result: Mild eye irritation

## Respiratory or skin sensitisation

### Product:

Remarks: Causes sensitisation.

### Components:

#### **13048-33-4 hexamethylene diacrylate:**

Test Type: Maximisation Test  
Exposure routes: Dermal  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Causes sensitisation.

#### **15625-89-5 2-ethyl-2-[(1-oxoallyl)oxy]methyl-1,3-propanediyl diacrylate:**

Test Type: Maximisation Test  
Exposure routes: Dermal  
Species: Guinea pig  
Result: May cause sensitisation by skin contact.

#### **42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate:**

Test Type: Mouse Local Lymph Node assay (LLNA)  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: May cause sensitisation by skin contact.  
GLP: yes

#### **556-67-2 octamethylcyclotetrasiloxane:**

Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
GLP: yes

## Germ cell mutagenicity

### Components:

#### **15625-89-5 2-ethyl-2-[(1-oxoallyl)oxy]methyl-1,3-propanediyl diacrylate:**

Germ cell mutagenicity- : In vitro tests showed mutagenic effects, In vivo tests showed  
Assessment mutagenic effects

## Carcinogenicity

### **IARC**

Group 2B: Possibly carcinogenic to humans

2-ethyl-2-[(1-

15625-89-5

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oxoallyl)oxy]methyl]-1,3-  
propanediyl diacrylate

benzophenone

119-61-9

## OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

## NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## Further information

### Product:

Remarks: No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **13048-33-4 hexamethylene diacrylate:**

M-Factor (Acute aquatic toxicity) : 1

##### **15625-89-5 2-ethyl-2-[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

##### **119-61-9 benzophenone:**

Toxicity to fish : NOEC (Pimephales promelas (fathead minnow)): 5.86 mg/l  
Exposure time: 168 h

LC50 (Pimephales promelas (fathead minnow)): 14.2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.28 mg/l  
Exposure time: 24 h

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available



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## Other adverse effects

No data available

## Product:

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information

: No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues

: Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging

: Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No.

: UN 3082

Proper shipping name

: Environmentally hazardous substance, liquid, n.o.s.  
(Trimethylolpropane triacrylate, Hexandiol diacrylate)

Class

: 9

Packing group

: III

Labels

: Miscellaneous

Packing instruction (cargo aircraft)

: 964

Packing instruction (passenger aircraft)

: 964

#### IMDG-Code

UN number

: UN 3082

Proper shipping name

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(TRIMETHYLOLPROPANE TRIACRYLATE, Hexandiol diacrylate)

Class

: 9

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Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## National Regulations

### 49 CFR

UN/ID/NA number : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Trimethylolpropane triacrylate, Hexandiol diacrylate)  
Class : 9  
Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
Marine pollutant : yes(Trimethylolpropane triacrylateHexandiol diacrylate)  
Remarks : Shipment by ground under DOT is non-regulated; however it  
may be shipped per the applicable hazard classification to  
facilitate multi-modal transport involving ICAO (IATA) or IMO.

49CFR: no dangerous good in non-bulk packaging

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

This material does not contain any components with a CERCLA RQ.

#### SARA 304 - Emergency Release Notification

This material does not contain any components with a section 304 EHS RQ.

#### US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

This material does not contain any components with a SARA 302 RQ.


**SARA 302** : No chemicals in this material are subject to the reporting  
requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with  
known CAS numbers that exceed the threshold (De Minimis)  
reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air  
Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

 **WARNING:** This product can expose you to chemicals including 2-ethyl-2-[[1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate, benzophenone, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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#### SECTION 16. OTHER INFORMATION

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