



## SAFETY DATA SHEET

### SECTION 1

#### Identification of the substance/mixture and of the company/undertaking

##### 1.1 / Product Identifier

- POC Lab. - UV Resin HT-160C ESD

##### 1.2 / Relevant identified uses of the substance or mixture and uses advised against

- Recommended use: Photoinitiator / For use with an LCD /MSLA/ DLP 3D printer

##### 1.3 / Details of the supplier of the safety data sheet

Company : POC Lab.  
320, rue Saint-Honoré  
75001 – PARIS (France)

E.Mail : [contact@poclab.xyz](mailto:contact@poclab.xyz)

Website : [www.poclab.xyz](http://www.poclab.xyz)

##### 1.4 / Emergency telephone number

Number ORFILA (INRS) : +33 (0)1 45 42 59 59  
International emergency number : +49 180 2273-112

### SECTION 2

#### Hazards Identification

##### 2.1 / Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 (CLP)

- |                                 |                                          |
|---------------------------------|------------------------------------------|
| • Acute Tox. 4 (par voie orale) | H302 Harmful if swallowed                |
| • Skin Corr./Irrit. 2           | H315 Causes skin irritation              |
| • Skin Sens. 1B                 | H317 May cause an allergic skin reaction |
| • Eye Dam./Irrit. 1             | H319 Causes serious eye irritation       |

- Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2 / Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word: Danger

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H411 Toxic to aquatic life with long lasting effects

Precautionary Statements (Prevention):

- P261 Avoid breathing dust/fume/gas/mist/vapours/ spray
- P264 Wash arms, hands and face thoroughly after handling
- P272 Contaminated work clothing should not be allowed out of the workplace
- P273 Avoid release to the environment
- P280 Wear protective gloves/ protective clothing/eye protection/face protection

Precautionary Statements (Response):

- P305&P351&P338 IF IN EYE: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- P302&P352 IF ON SKIN: Wash with soap and water
- P310 Immediately call a POISON CENTER or doctor/physician

Precautionary Statements (Disposal):

- P501 Dispose of contents and container in accordance with all local, regional, national and international regulations

According to Regulation (EC) No 1272/2008 (CLP)

Hazard determining component(s) for labelling:

Urethane acrylate oligomer / 2-[4-(2-{4-[2-(prop-2-enoyloxy)ethoxy]phenyl}propan-2-yl)phenoxy]ethyl prop-2-enoate / 2,4,6-tri-tert-butylphénol / SWCNT / 2,2'-ethylenedioxydiethyl dimethacrylate / Alkylolammonium salt / Color pigment

## 2.3 / Other dangers

According to Regulation (EC) No 1272/2008 (CLP)

No particular dangers known, if the regulations/notes for storage and handling are observed.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

### SECTION 3 Composition/information on ingredients

#### 3.1 / Substances

Not applicable

#### 3.2 / Mixtures

Chemical nature:

Preparation based on: Urethane acrylate oligomer / 2-[4-(2-{4-[2-(prop-2-enoyloxy)ethoxy]phenyl}propan-2-yl)phenoxy]ethyl prop-2-enoate / 2,4,6-tri-tert-butylphénol / SWCNT / 2,2'-ethylenedioxydiethyl dimethacrylate / Alkylolammonium salt / Color pigment

Hazardous ingredients (GHS):

- EC N° 944-664-8
  - Urethane acrylate oligomer
  - %W ≤ 55
  - Skin Irrit. 2 / Eye Irrit. 2
  - H319, H315
- EC N° 613-584-2
  - 2-[4-(2-{4-[2-(prop-2-enoyloxy)ethoxy]phenyl}propan-2-yl)phenoxy]ethyl prop-2-enoate
  - Hexamethylene diacrylate
  - %W ≤ 50
  - Skin Irrit. 2 / Eye Irrit. 2 / Skin Sens. 1 / Aquatic Chronic 2 / STOT SE 3
  - H315, H319, H317, H411, H335
- EC N° 204-337-6
  - 2,4,6-tri-tert-butylphénol
  - %W ≤ 5
  - Acute Tox. 4 / Eye Irrit. 2 / Acute Tox. 4 / Acute Tox. 2 / Skin Irrit. 2 / Eye Irrit. 2 / Skin Irrit. 2 / Eye Irrit. 2 / STOT SE 3 / Carc. 1B / Aquatic Chronic 2
  - H302, H319, H332, H330, H315, H335, H350, H411
- EC N° 952-189-2
  - SWCNT
  - %W < 1
  - Eye Irrit. 2
  - H319
- EC N° 203-652-6
  - 2,2'-ethylenedioxydiethyl dimethacrylate

- %W < 2
- Skin Sens. 1 / Skin Sens. 1B / Skin Irrit. 2 / Eye Irrit. 2 / Resp. Sens. 1 / STOT SE 3
- H317, H315, H319, H334, H335
- EC N° 812-737-2
  - Alkylolammonium salt
  - %W < 1
  - Skin Irrit. 2 / Eye Irrit. 2 / Aquatic Acute 1 / Aquatic Chronic 1 / Aquatic Chronic 2
  - H315, H319, H400, H410, H411

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## **SECTION 4**

### **First aid measures**

#### **4.1 / Description first aid measures**

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### **4.2 / Most important symptoms and effects, both acute and delayed**

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far.

#### **4.3 / Indication of any immediate medical attention and special treatment needed**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## **SECTION 5**

### **Fire fighting measures**

#### **5.1 / Extinguishing media:**

Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: water jet.

## **5.2 / Special hazards arising from the substance or mixture**

harmful vapours:

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

## **5.3 / Advice for fire-fighters**

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

# **SECTION 6**

## **Accidental releases measures**

## **6.1 / Personal precautions, protective equipment and emergency**

Use personal protective clothing. Breathing protection required.

## **6.2 / Environmental precautions cautions**

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

## **6.3 / Methods and material for containment and cleaning up**

For large amounts:

Pump off product.

For residues:

Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

## **6.4 / Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

# **SECTION 7**

## **Handling and storage**

## **7.1 / Precautions for safe handling**

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Heated containers should be cooled to prevent polymerization. Take precautionary measures against static discharges.

## **7.2 / Conditions for safe storage, including any incompatibilities**

The product in undamaged packing need not be stored separately.

Further information on storage conditions: Protect against heat. Protect from the effects of light. The stabilizer is only effective in the presence of oxygen.

Handle and open containers with care. Close container tightly after use.

Protect from temperatures below: 15 °C

Protect from temperatures above: 35 °C

## **7.3 / Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

# **SECTION 8**

## **Exposure Controls/Personal Protection**

### **8.1 / Control parameters**

Exposure parameters to be checked in the workplace

No known occupational exposure limit value.

### **8.2 / Exposure controls**

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Protection des mains :

Gants de protection résistant aux produits chimiques (EN 374)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be

observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

Respect the precautionary measures usually applicable when using chemicals. In addition to the indications on personal protective equipment, the wearing of closed work clothes is necessary.

## SECTION 9 Physical and chemical properties

### 9.1 / Information on basic physical and chemical properties

- Form: Liquide
- Color: Black
- Odour: Type acrylique
- Odour threshold: Not determined
- pH value: Not determined
- Melting point: Not determined
- Boiling point: Not determined
- Flash point: > 110 °C
- Evaporation rate: Not determined
- Flammability: Not determined
- Lower explosion limit.: Not determined
- Upper explosion limit.: Not determined
- Ignition temperature: Not determined
- Vapour pressure: Not determined
- Density:  $\approx 1.15 \text{ g/cm}^3$  (25 °C)
- Relative density: 1.15 (25 °C)
- Relative vapour density (air): Not determined
- Water Solubility: Insoluble
- Solubility (qualitative) solvent(s): Soluble in ethanol, ethyl acetate, benzene and other organic solvents
- Partitioning coefficient n-octanol/water (log Kow): not applicable for mixtures
- Self ignition: Not self-igniting
- Thermal decomposition: Not determined
- Viscosity, dynamilc:  $\approx 600 \text{ mPa.s}$  (25 °C)
- Explosion hazard: Not explosive
- Fire promoting properties: Not fire-propagating

### 9.2 / Other information

- Surface tension: No data available
- Particle size distribution: The substance/product is marketed or used in non-solid form.

## **SECTION 10**

### **Stability and reactivity**

#### **10.1 / Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

#### **10.2 /Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

#### **10.3 / Possibility of hazardous reactions**

The product may polymerize after significantly exceeding the allowable storage time or temperature. Heat release during polymerization. Reactions with peroxides and with other radical components. Strong exposure to light can cause a chemical reaction and generate strong heat.

Before delivery the product is stabilized to avoid spontaneous polymerization.

#### **10.4 / Conditions to avoid**

See SDS section 7 - Handling and storage.

#### **10.5 / Incompatible materials**

Materials to avoid: Oxidizing acid, alkali and water

#### **10.6 / Hazardous decomposition products**

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

## **SECTION 11**

### **Toxicological Information**

#### **11.1 / Information on toxicological effects**

Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion.

Irritation

Skin Corrosion/Irritation: Irritant.

Serious eye damage/irritation: May cause severe irritation.

#### Respiratory/Skin sensitization

Assessment of sensitizing effect: Possible allergy, skin irritation after contact. No known significant effects or critical hazards.

#### Carcinogenicity

Assessment of carcinogenicity: The available information does not give any indication of a possible carcinogenic effect.

#### Reproductive toxicity

Reproductive Toxicity Assessment: No known significant effects or critical hazards

#### Developmental toxicity

Teratogenicity Assessment: Based on the components, no teratogenic effects are suspected.

#### Specific target organ toxicity (single exposure)

Simple Assessment of Specific Target Organ Toxicity (STOT): Based on available information, no specific target organ toxicity is anticipated from a single exposure.

Note: The product has not been tested. The indication given is derived from substances/products with a similar structure or composition.

#### Repeated Dose Toxicity and Specific Target Organ Toxicity (Repeated Exposure)

Assessment of repeated dose toxicity: The substance may cause specific damage to organs through repeated oral exposure.

#### Aspiration hazard

No aspiration hazard expected.

#### Other relevant toxicity information

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## SECTION 12 Ecological Information

### 12.1 /Toxicity

Assessment of aquatic toxicity:

Harmful (acutely harmful) to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Product has not been tested. The indication is derived from the properties of individual components.

Fish Toxicity:

No data available.

Aquatic Invertebrates:

No data available.

Aquatic plants:

No data available.

Microorganisms/Effect on Activated Sludge:

No data available.

Chronic effects on fish:

No data available.

Chronic effects on aquatic invertebrates. :

No data available.

Terrestrial Toxicity Assessment:

No data available.

## **12.2 / Persistence and degradability**

Assessment of biodegradability and elimination (H<sub>2</sub>O):

Hardly biodegradable.

## **12.3 / Bioaccumulative potential**

Assessment bioaccumulation potential:

The product has not been tested.

## **12.4 / Mobility in soil**

Assessment transport between environmental compartments:

Volatility: No data available.

## **12.5 / Results of PBT and vPvB assessment**

PBT and vPvB assessment:

The product does not contain any substance fulfilling the PBT criterion (Persistent/bioaccumulative/toxic) or the vPvB criterion (very Persistent and very bioaccumulative).

## **12.6 / Other adverse effects**

The product does not contain substances listed in Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

## **12.7 / Additional information**

Other Distribution and Residue Notes:

The treatment, or even the introduction of wastewater into a biological treatment plant must be carried out in compliance with local and regulatory requirements.

Other ecotoxicity information:

Harmful (acutely harmful) to aquatic organisms.

## **SECTION 13**

### **Disposal Considerations**

#### **13.1 / Waste treatment methods**

Must be directed to an approved landfill or incinerated in an approved center while respecting local regulatory requirements.

Uncleaned packaging:

Uncontaminated packaging can be reused. Packaging that cannot be cleaned must be disposed of like the product it contained.

## **SECTION 14**

### **Transport information**

#### Land transport

ADR - Non-hazardous product within the meaning of transport regulations

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

RID - Non-hazardous product within the meaning of transport regulations

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

#### Transport fluvial intérieur

ADN - Non-hazardous product within the meaning of transport regulations

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

#### Transport maritime

IMDG - Non-hazardous product within the meaning of transport regulations

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable

Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

#### Transport aérien

IATA/ICAO - Non-hazardous product within the meaning of transport regulations

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

#### 14.1 / UN number

See corresponding entries for “UN number” for the respective regulations in the tables above.

#### 14.2 / UN proper shipping name

See corresponding entries for “UN proper shipping name” for the respective regulations in the tables above.

#### 14.3 / Transport hazard class(es)

See corresponding entries for “Transport hazard class(es)” for the respective regulations in the tables above.

#### 14.4 / Packing group

See corresponding entries for “Packing group” for the respective regulations in the tables above.

#### 14.5 / Environmental hazards

#### 14.6 / Special precautions for user

See corresponding entries for “Special precautions for user” for the respective regulations in the tables above.

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

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship type:	Not evaluated

## **SECTION 15**

### **Regulatory information**

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

Directive 2012/18/EU - Control of major accident hazards involving dangerous substances (EU):  
Listed in the regulations above: no

#### **15.2 / Chemical Safety Assessment**

Advice on handling the product can be found in sections 7 and 8 of this safety data sheet.

## **SECTION 16**

### **Other information**

Any other intended applications should be discussed with the manufacturer.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
STOT SE	Specific target organ toxicity - single exposure
Repr.	Reproductive toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects

#### **Abbreviations**

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN = European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CLP = Regulation relating to classification, labeling and packaging of substances and mixtures

EC = European Community

EN = European standards

IATA = International Air Transport Association

IBC: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

IMDG = International Maritime Dangerous Goods Code

ISO = International Organization for Standardization

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

PBT = Persistent, Bioaccumulative and Toxic

RID = Regulations concerning the international carriage of dangerous goods by rail

UN number = UN number for the transport of dangerous goods

vPvB = very persistent and very bioaccumulative.

The data contained in this safety data sheet is based on our current experience and knowledge; they describe the product in terms of safety requirements. This safety data sheet is neither a certificate of analysis nor a technical data sheet and can in no way be considered as an agreement on our sales specifications. The uses identified in this safety data sheet represent neither an agreement on the corresponding contractual quality of the substance / mixture nor a contractually designated use. It is the responsibility of the purchaser of our products to ensure that all intellectual property rights and all applicable legislation are observed.