

## SECTION 1: IDENTIFICATION

### Identification of the Substance / Mixture and of the Company / Undertaking

#### 1.1. Product identifier

**PRODUCT NAME:** UV Adhesives

**PRODUCT CODE:** UV604L10, UV604L1K, UV604L25, UV604L30

#### 1.2. Relevant identified uses of the substance or mixture and used advised against Identified Uses

PC1                      Adhesives, sealants

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

**Name/Address:** C.R. Laurence Co., Inc.  
2503 E. Vernon Ave,  
Los Angeles, CA 90058

**Telephone Number:** 1.800.421.6144

#### 1.4. Emergency telephone number

**EMERGENCY TELEPHONE NUMBER:** CHEMTREC 1-800-424-9300 (US and Canada)

**Number:** INTERNATIONAL +1-703-527-3887

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Classification according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Repr. 2	H361f
STOT SE 3	H335

### 2.2. Label elements

#### Labelling according to OSHA Hazard Communication Standard 29 CFR 1910:1200

#### Hazard pictograms \*\*\*



#### Signal word \*\*\*

Warning

#### Hazard statements \*\*\*

H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

**Precautionary statements****Prevention**

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P312	Call a POISON CENTER/doctor/. if you feel unwell.
P332	If skin irritation occurs:
P333	If skin irritation or rash occurs:
P337	If eye irritation persists:
P362+P364	Take off contaminated clothing and wash it before reuse.

**Storage/Disposal**

P405	Store locked up.
P501.1	Dispose of contents/container to industrial incineration plant.

**2.3. Other hazards**

No special hazards have to be mentioned.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**Hazardous ingredients according to OSHA Hazard Communication Standard 29 CFR 1910:1200 \*\*\***

**Hydroxypropylmethacrylate**

CAS No.	27813-02-1				
Concentration	>=	25	<	50	%

**Isobornyl acrylate**

CAS No.	5888-33-5				
Concentration	>=	10	<	20	%

**Acrylic acid**

CAS No.	79-10-7				
Concentration	>=	3	<	5	%

Additional remarks:

CLP	Regulation (EC) No 1272/2008, Annex VI, Note D
DSD	Directive 67/548/EEC, Annex I, Note D

**tert-Butylperbenzoate**

CAS No.	614-45-9				
Concentration	>=	1	<	2.7	%

**2-Hydroxy-2-methylpropiophenone**

CAS No.	7473-98-5				
Concentration	>=	1	<	6.9	%

**Diphenyl(2,4,6 trimethylbenzoyl)phosphine oxide**

CAS No.	75980-60-8				
Concentration	>=	1	<	3	%

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

**After inhalation**

Ensure supply of fresh air. When vapours are intensively inhaled, seek medical help immediately.

**After skin contact**

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

**After ingestion**

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

**Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

**4.2. Most important symptoms and effects, both acute and delayed**

Until now no symptoms known so far.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Suitable extinguishing media**

Dry powder, Carbon dioxide, Foam

**Non suitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In case of combustion evolution of dangerous gases possible.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

**Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

**6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. In case the product spills into sewage waters, immediately inform the authorities.

**6.3. Methods and material for containment and cleaning up**

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

**6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Advice on safe handling**

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep container tightly closed. Observe the usual precautions for handling chemicals.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

**Further information on storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.

**8.2. Exposure controls****General protective and hygiene measures**

Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

**Respiratory protection**

Use NIOSH approved respirator if there is potential to exceed exposure limits. If this material is handled at elevated temperatures, or under mist-forming conditions without engineering controls, a NIOSH approved respirator must be used.

**Hand protection**

Chemical resistant gloves

Use	Short-term hand contact
Appropriate Material	nitrile
Material thickness	$\geq$ 0,4
Breakthrough time	$>$ 480

**Eye protection**

Safety glasses with side protection shield

**Body protection**

Clothing as usual in the chemical industry.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Form</b>	Liquid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic
<b>Odour threshold</b>	
Remarks	not determined
<b>pH value</b>	
Remarks	not determined
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Remarks	not determined
<b>Flash point</b>	
Value	> 100 °C
<b>Evaporation rate (ether = 1) :</b>	
Remarks	not determined
<b>Flammability (solid, gas)</b>	
not determined	
<b>Upper/lower flammability or explosive limits</b>	
Remarks	not determined
<b>Vapour pressure</b>	
Remarks	not determined
<b>Vapour density</b>	
Remarks	not determined
<b>Density</b>	
Remarks	not determined
<b>Solubility in water</b>	
Remarks	not determined
<b>Solubility(ies)</b>	
Remarks	not determined
<b>Partition coefficient: n-octanol/water</b>	
Remarks	not determined
<b>Ignition temperature</b>	
Remarks	not determined
<b>Decomposition temperature</b>	
Remarks	not determined
<b>Viscosity</b>	
Remarks	not determined
<b>Explosive properties</b>	
evaluation	not determined
<b>Oxidising properties</b>	
Remarks	not determined

**9.2. Other information****Other information**

None known

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

No hazardous reactions known.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

No hazardous reactions known.

**Decomposition temperature**

Remarks not determined

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**

Irritant gases/vapours

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****National Toxicology Program (NTP) \*\*\***

Components: tert-Butylperbenzoate; Methacrylic acid

**International Agency for research on Cancer (IARC)**

Components: Acrylic acid

**Acute oral toxicity**

ATE	>	10,000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		

**Acute oral toxicity (Components)****2-Hydroxy-2-methylpropiophenone**

Species	rat		
LD50		1694	mg/kg

**Acrylic acid**

Species	rat		
LD50	=	1500	mg/kg

**tert-Butylperbenzoate**

Species	rat		
LD50		4828	mg/kg

**Acute dermal toxicity**

ATE	>	10,000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		

**Acute dermal toxicity (Components)****2-Hydroxy-2-methylpropiophenone**

Species	rat		
LD50		6929	mg/kg

**Acrylic acid**

Species	rabbit		
LD50	>=	2000	mg/kg

**tert-Butylperbenzoate**

Species	rabbit	
LD50	3817	mg/kg

**Acute inhalational toxicity**

ATE	34.0022	mg/l
Administration/Form	Vapors	
Method	calculated value according to GHS (e.g see UN GHS)	
ATE	> 20	mg/l
Administration/Form	Dust/Mist	
Method	calculated value according to GHS (e.g see UN GHS)	

**Acute inhalative toxicity (Components)****Acrylic acid**

Species	rat	
LC50	>= 5,1	mg/l
Duration of exposure	4	h
Administration/Form	Vapors	

**tert-Butylperbenzoate**

Species	rat	
LC50	> 1,01	mg/l
Duration of exposure	4	h
Administration/Form	Vapors	

**Skin corrosion/irritation**

Remarks	not determined
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**Serious eye damage/irritation**

Remarks	not determined
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**Sensitization**

Remarks	not determined
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**Sensitization (Components)****2-Hydroxy-2-methylpropiophenone**

Route of exposure	dermal
Species	guinea pig
evaluation	non-sensitizing

**Acrylic acid**

evaluation	non-sensitizing
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**Subacute, subchronic, chronic toxicity**

Remarks	not determined
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**Mutagenicity**

Remarks	not determined
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**Reproductive toxicity**

Remarks	not determined
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**Carcinogenicity**

Remarks	not determined
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**Specific Target Organ Toxicity (STOT)**

Remarks	not determined
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**Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

**Other information**

No toxicological data are available.

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity****General information**

not determined

**Fish toxicity (Components)****2-Hydroxy-2-methylpropiophenone**

Species	golden orfe ( <i>Leuciscus idus</i> )		
LC50	160		mg/l
Duration of exposure	48	h	

**Acrylic acid**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )		
LC50	= 27		mg/l
Duration of exposure	96	h	

**tert-Butylperbenzoate**

Species	zebra fish ( <i>Brachydanio rerio</i> )		
LC50	1,6		mg/l
Duration of exposure	96	h	

**Daphnia toxicity (Components)****2-Hydroxy-2-methylpropiophenone**

Species	Daphnia magna		
EC50	> 119		mg/l
Duration of exposure	48	h	

**Acrylic acid**

Species	Daphnia magna		
EC50	= 47	to 95	mg/l
Duration of exposure	48	h	

**tert-Butylperbenzoate**

Species	Daphnia magna		
EC50	11		mg/l
Duration of exposure	24	h	

**Algae toxicity (Components)****2-Hydroxy-2-methylpropiophenone**

Species	Scenedesmus subspicatus		
EC50	1,95		mg/l
Duration of exposure	72	h	

**2-Hydroxy-2-methylpropiophenone**

Species	Scenedesmus subspicatus		
EC10	0,629		mg/l
Duration of exposure	72	h	

**Acrylic acid**

Species	Scenedesmus subspicatus		
ErC50	= 0,13		mg/l
Duration of exposure	72	h	

**tert-Butylperbenzoate**

Species	Algae		
EC50	0,8		mg/l
Duration of exposure	72	h	

**12.2. Persistence and degradability****General information**

not determined

**Chemical oxygen demand (COD) (Components)****Acrylic acid**

Value	= 1,48	kg/kg
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**Biochemical oxygen demand (BOD5) (Components)****Acrylic acid**

Value	= 0,31	kg/kg
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**12.3. Bioaccumulative potential****General information**

not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**12.4. Mobility in soil****General information**

not determined

**12.5. Results of PBT and vPvB assessment****General information**

not determined

**12.6. Other adverse effects****General information**

not determined

**General information / ecology**

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Disposal recommendations for the product**

Dispose of waste according to applicable legislation.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

**SECTION 14: TRANSPORT INFORMATION****Ground transport DOT \*\*\*****14.1. UN number**

UN 3082

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)

**14.3. Transport hazard class(es)**

Class 9

Label 9

**14.4. Packing group**

Packing group III

Remarks The product is not subject to any other provisions of ADR provided packaging of not more than 5 l / 5 kg (SP 375)

Limited Quantity 5 l

Transport category 3

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS

**Marine transport IMDG/GGVSee \*\*\*****14.1. UN number**

UN 3082

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)

**14.3. Transport hazard class(es)**

Class 9

**14.4. Packing group**

Packing group III

Remarks The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg.

**14.5. Environmental hazards**

Marine Pollutant

**Air transport ICAO/IATA \*\*\*****14.1. UN number**

UN 3082

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)

**14.3. Transport hazard class(es)**

Class 9

**14.4. Packing group**

Packing group III

Remarks The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197)

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Other information**

All components are contained in the TSCA inventory or exempted.

All components are contained in the IECSC inventory.

All components are contained in the ECL inventory.

All components are contained in the DSL inventory.

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

The product does not contain any listed components.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

Components: Acrylic acid

**Clean Water Act (CWA) Section 307 Toxic Pollutants (40 CFR 401.15)**

The product does not contain any listed components.

**Clean Water Act (CWA) Section 311 Toxic Pollutants (40 CFR 116.4)**

The product does not contain any listed components.

**Clean Air Act (CAA) Section 112 Regulated Toxic Substances And Threshold Quantities For Accidental Release Prevention (40 CFR 68.130 Table 1+2)**

Components: Acrylic acid; Methacrylic acid

**Clean Air Act (CAA) Section 112 Regulated Flammable Substances And Threshold Quantities For Accidental Release Prevention (40 CFR 68.130 Table 3+4)**

The product does not contain any listed components.

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

Warning! This product may contain trace quantities of substance(s) known to the state of California to cause cancer and/or reproductive toxicity - not added as a part of the formulation but remaining as residuals from the manufacturing process of our raw material suppliers.

**NFPA Rating Information****HMIS® Rating Information**

Health	1
Flammability	1
Physical Hazard	
Personal Protection	

**SECTION 16: OTHER INFORMATION****Department issuing safety data sheet**

Department product safety

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.