

## Safety Data Sheet acc. to OSHA HCS

Print Date 02/18/2015

Revision Date 02/18/2015

### Product Identifier

- Trade Name: **UR6060 A**
- Application of the Substance or Mixture: Polyurethane Resin

### Details of the Supplier of the Safety Data Sheet (SDS)

- Manufacturer or Supplier:  
Resinlab, LLC  
N109 W13300 Ellsworth Drive,  
Germantown, WI 53022  
1-800-388-8605  
www.resinlab.com
- Information Department: Product Safety Department: msds@resinlab.com
- Emergency Telephone Number:  
North America - Chemtrec: 1-800-424-9300 (24 hours)  
International - Chemtrec: 01-703-527-3887 (24 hours)

## 2 Hazard(s) identification

- Hazard Classification The product is not classified according to the Globally Harmonized System (GHS).

### Label Elements

- GHS label elements Void
- Pictogram(s) Void
- Signal Word Void
- Hazard statements Void

### Hazard Rating System

- NFPA System
- NFPA Ratings (scale 0 - 4)



NFPA special hazards (water reactivity and oxidizing property): None

### HMIS System

- HMIS Ratings (scale 0 - 4)



### Other hazards

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## 3 Composition/information on ingredients

### Chemical Characterization: Mixtures

#### Composition/Information on Ingredients

CAS: 37625-56-2 NLP: 500-099-5	2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol	50-60%
CAS: 31831-53-5 EC number: 608-670-1	2-oxepanone, polymer with 1,4 butanediol	30-40%
CAS: 122-51-0 EINECS: 204-550-4 RTECS: RM 6475000	Triethyl orthoformate Flam. Liq. 3, H226 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤1%

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**Classification System:**

The Classifications were based on the Toxicological and Ecological Data of the substances/mixtures in the Section 11 and 12.

### 4 First-aid measures

**Description of First Aid Measures****After Inhalation**

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Supply fresh air; consult doctor in case of complaints.

**After Skin Contact**

Gently wash contaminated skin with water.  
Remove all contaminated clothing and wash before reuse.  
Seek medical treatment in case of complaints.

**After Eye Contact**

Rinse opened eyes under running water for at least 15 minutes.  
Remove contact lenses if present and easy to do so; continue rinsing.  
Seek medical treatment in case of complaints.

**After Swallowing**

If victim is unconscious; never give anything by mouth.  
If victim is conscious; rinse out mouth and give victim small amounts of water.  
Seek medical treatment in case of complaints.

**After Exposure** Seek medical treatment in case of complaints.**Information for Doctor** Have chemical containers, labels and/or (M)SDS ready when calling or visiting a medical center.**Indication of any Immediate Medical Attention and Special Treatment Needed**

After frequent or high intense exposure, the following medical tests are recommended:

eye tests  
skin tests

Check section 11 Toxicological Information for further relevant information.

Check section 11 Toxicological Information for further relevant information.

**Additional Information**

For additional information, please consult the corresponding first aid measures in the most current version of Emergency Response Guidebook which is produced by the US Department of Transportation.

### 5 Fire-fighting measures

**Extinguishing Media****Suitable Extinguishing Agent(s)**

Use fire fighting measures and extinguishing agents that suit the environment.

In case of fire, suitable extinguishing agents are:

Alcohol resistant foam.

Dry chemical or fire-extinguishing powder.

Carbon dioxide (CO<sub>2</sub>).

Water spray or water fog.

**Unsuitable Extinguishing Agent(s)** No relevant information.**Firefighting Procedures**

Isolate fire and deny unnecessary entry.

Eliminate all ignition sources if safe to do so.

Do not extinguish fire unless flow can be stopped.

Fight fire remotely due to the risk of explosion.

Burning liquids may be moved by flushing with water; protect personnel and minimize property damage.

Fight fire from protected location or safe distance.

Contain fire water runoff if possible to prevent environmental pollution.

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**Special Hazards Arising in Fire***Will not burn unless preheated.**In case of fire, following can be released:**Possible release of monomer (2-Oxypanone, Hexan-6-Olide, CAS 502-44-3)**Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)***Advice for Firefighters***If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).**As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.***Additional Information** *Ensure adequate and functional fire fighting facilities equipped in working area at all times.*

### 6 Accidental release measures

**Personal Precautions***Ensure personnel take precautions for their personal protection during clean up; see Section 8 for the specific requirements.***Environmental Precautions** *No further relevant information.***Cleaning Up Methods***Ensure adequate ventilation.**Eliminate all ignition sources.**Keep unauthorized personnel away.**For large spills:**Shut off source of leak if safe to do so.**Dike and contain.**Remove with vacuum trucks or pump to storage/salvage vessels.**Absorb residues with liquid-binding materials.**For small spills:**Ventilate and wash area after clean-up is complete.**Collect spills in suitable and properly labeled containers.**Do not use solvents unless following safe handling practices and within the recommended exposure guidelines.**Dispose contaminated chemicals as waste according to Section 13.***Additional Information** *No further relevant information.*

### 7 Handling and storage

**Handling****Precautions for Safe Handling***Keep away from incompatible material(s).**Avoid any release into the environment.**Observe all the personal protection requirements in Section 8.***Information about Protection Against Explosions and Fires***Will not burn unless preheated.**Keep away from heat, sparks, open flame and other ignition sources during handling.***Storage****Requirements to be Met by Storerooms and Receptacles***Keep stored in accordance with local, regional, national, and international regulations.***Information about Storage in One Common Storage Facility***Store away from incompatible material(s).**Store away from foodstuffs.**Avoid release to the environment.***Additional Information** *No further relevant information.*

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### 8 Exposure controls/personal protection

· **Engineering Measures or Controls**

· **Exposure Limit Values that Require Monitoring at the Workplace**

The substance/mixture does not contain any relevant quantities of substances with critical values that have to be monitored at the workplace.

· **Other Engineering Measures or Controls**

Ventilation rates should be matched to conditions.

If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

· **Personal Protective**

· **General Protective and Hygienic Measures**

Do not eat, drink or smoke during work.

Avoid any contact with the eye.

Keep food, drink or feed away from working area.

Contaminated work clothing is not allowed out of workplace.

Clean hands and exposed skin thoroughly after work and before breaks.

· **Personal Protective Equipment (PPE)**

· **Breathing Equipment**

Caution! Improper use of respirators is dangerous.

In case of brief exposure or low pollution, use a respiratory filter device.

In case of intensive or longer exposure, use a positive-pressure respiratory protective device that is independent of circulating air.

· **Hand Protection**



Protective gloves

Selection of glove material should take into consideration the penetration times, rates of diffusion, and the degradation.

Suggested glove type(s):

Nitrile Gloves

Butyl Rubber Gloves

· **Eye Protection**



Safety Glasses

· **Body Protection** No relevant information.

· **Additional Information**

The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

### 9 Physical and chemical properties

· **Information on Basic Physical and Chemical Properties**

· **Appearance:**

· **Form:** Liquid

· **Color:** Clear

· **Odor:** Odorless

· **Odor Threshold:** Not determined.

· **PH-Value:** Not determined.

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· **Change in Condition:**

· **Melting Point:** Not determined.

· **Boiling Point:** Not determined.

· **Flash Point:** 218 °C (424 °F)

· **Decomposition Temperature:** Not determined.

· **Flammability:** Not determined.

· **Explosion:** Not determined.

· **Explosion Limits:**

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Vapor Pressure:** Not determined.

· **Density at 20 °C (68 °F):** 1.08 g/cm<sup>3</sup> (9.013 lbs/gal)

· **Solubility in or Miscibility with**

· **Water:** Not miscible or difficult to mix.

· **Viscosity:**

· **Dynamic:** Not determined.

· **Kinematic:** Not determined.

· **Additional Information** No further relevant information.

### 10 Stability and reactivity

· **Physical Hazard(s)** Not a regulated reactive or physical hazard under GHS.

· **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.

· **Thermal Decomposition and Conditions to be Avoided**

Keep away from incompatible material(s).

Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.

· **Possibility of Other Hazardous Reaction(s)** No further relevant information available.

· **Incompatible Material(s)**

Acids

Strong oxidizing agent

· **Hazardous Decomposition Product(s)**

Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.

· **Hazardous Polymerization Product(s)** No relevant information.

· **Additional Information** No further relevant information.

### 11 Toxicological information

· **Acute Toxicity**

· **Oral**

**37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol**

Oral LD50 >2000 mg/kg (rat) (EU Method B.1)

**31831-53-5 2-oxepanone, polymer with 1,4 butanediol**

Oral LD50 >2000 mg/kg (rat) (Standard Acute)

Source: REACH Dossier Standar Acute Method Testing

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**122-51-0 Triethyl orthoformate**

Oral LD50	7060 mg/kg (rat) Reference: ECHA (2012).
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· **Potential Health Effect(s):** See acute inhalative effect(s) for further information

· **Dermal**

**37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol**

Dermal LD50	6400 mg/kg (rat) (OECD 402)
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**31831-53-5 2-oxepanone, polymer with 1,4 butanediol**

Dermal LD50	not irritating mg/kg (rabbit) (In vivo OECD Guideline 404) Source: REACH Dossier
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**122-51-0 Triethyl orthoformate**

Dermal LD50	18000 mg/kg (rabbit) Reference: ECHA (2012).
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· **Potential Health Effect(s):**

No further relevant information available; classification is not possible.  
See acute inhalative effect(s) for further information.

· **Inhalative**

**37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol**

Inhalative LC50/4 h	(No data available) No acute toxicity data exists on inhalation. However the inhalatory route is unlikely since the product is a non volatile liquid.
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**122-51-0 Triethyl orthoformate**

Inhalative LC50/4 h	(rat) (LC0/4hrs ≥ saturated vapor) Reference: ECHA (2012).
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· **Potential Health Effect(s):**

While not possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s):  
dizziness or lightheadedness

· **Skin Corrosion or Irritation**

**37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol**

Corrosion/Irritation	(Not applicable) No irritating effect. OECD 404
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**122-51-0 Triethyl orthoformate**

Corrosion/Irritation	not irritating (rabbit) (OECD TG 404) Erythema: 1.89 (Max. score not available) Edema: 1.61 (Max. score not available); the substance is not irritating to rabbit skin. Reference: ECHA (2012).
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· **Potential Health Effect(s):** No further relevant information; classification is not possible.

· **Eye Serious Damage or Irritation**

**37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol**

Damage/Irritation	(Not applicable) No irritating effect. OECD 405
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**31831-53-5 2-oxepanone, polymer with 1,4 butanediol**

Damage/Irritation	not irritating (rabbit) (in vivo OECD Guideline 404) Source: REACH Dossier
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**122-51-0 Triethyl orthoformate**

Damage/Irritation	slightly (rabbit) (OECD TG 405; 21 days) Cornea: 0/4 (Max. 4); Iris: 0/2 (Max. 2); Chemosis: 1/4 (Max. 4); and Conjunctivae: 1.44/3 (Max. 3). Fully reversible by the end of the test. The substance was slightly irritating to rabbit eyes. Reference: ECHA (2012).
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· **Potential Health Effect(s):** No further relevant information; classification is not possible.

· **Respiratory or Skin Sensitization**

**37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol**

Sensitization Skin	(Not applicable) No skin sensitization. OECD 429
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**31831-53-5 2-oxepanone, polymer with 1,4 butanediol**

Sensitization	Skin	not sensitizing (mouse) (in vivo LLNA OECD Guideline 429)
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**122-51-0 Triethyl orthoformate**

Sensitization	Skin	not sensitizing (guinea pig) (OECD TG 406; 20 treated animals; 100% dose level) No positive reaction was observed in any treated animals; the substance was therefore not sensitizing to pig skin. Reference: ECHA (2012).
	Respiratory	(No data available)

· **Potential Health Effect(s):** No relevant information for respiratory sensitization; classification is not possible.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Germ Cell Mutagenicity**

**37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol**

Mutagenicity	(bacteria)	The product is not considered to be mutagenic. Not mutagenic in Bacterial Reverse Mutation Assay OECD 471 The substance is not clastogenic. Mammalian Chromosomal Aberration Test OECD 473* Not mutagenic in mammalian cells OECD 476*
		read across from supporting substance (structural analogue)

**31831-53-5 2-oxepanone, polymer with 1,4 butanediol**

Mutagenicity	not mutagenic (Escherichia coli) (Ames test OECD Guideline 471) Source: REACH Dossier
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**122-51-0 Triethyl orthoformate**

Mutagenicity	N/a (Test species listed below) In Vitro (Mammalian cell gene mutation assay; OECD TG 476; Mouse lymphoma L5178Y cells) - positive In Vitro (Mammalian chromosome aberration test; OECD TG 473; Chinese hamster lung fibroblasts) - negative In Vivo (Micronucleus assay; OECD TG 474; mouse) - ambiguous No certain positive results from In Vivo tests were observed; it was not possible to make a conclusion without further data. Reference: ECHA (2012).
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· **Potential Health Effect(s):** No further relevant information; classification is not possible.

· **Carcinogenicity**

**122-51-0 Triethyl orthoformate**

Carcinogenicity	negative (Test species: n/a) Not listed as a carcinogen according to ACGIH, IARC, NTP, or OSHA.
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· **Potential Health Effect(s):** Not a known Carcinogen.

· **Reproductive Toxicity**

**122-51-0 Triethyl orthoformate**

Reproductive Toxi.	N/a (rat) LOEL (P-generation; Oral; 45 days) = 58 mg/kg bw/day LOEL (Developmental toxicity; Oral; 45 days) = 147 mg/kg bw/day No more details available; classification was not available without further information. Reference: ECHA (2012).
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· **Potential Health Effect(s):** No further relevant information; classification is not possible.

· **Specific Target Organ Toxicity - Single Exposure**

**122-51-0 Triethyl orthoformate**

STOT-Single	(No data available)
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· **Potential Health Effect(s):** No further relevant information; classification is not possible.

· **Specific Target Organ Toxicity - Repeated Exposure**

**122-51-0 Triethyl orthoformate**

STOT-Repeated	(rat) NOEL (Oral; males and females; 45 days) = 51.7 mg/kg bw/day; no test detail available. Reference: ECHA (2012).
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· **Potential Health Effect(s):** No further relevant information; classification is not possible.

· **Aspiration Hazard**

**122-51-0 Triethyl orthoformate**

Aspiration Hazard (No data available)

· **Potential Health Effect(s):** No relevant information; classification is not possible.

· **Additional Information** No further relevant information.

## 12 Ecological information

· **Aquatic Environmental Toxicity**

**37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol**

Crustacean Toxicity 204\* mg/l (Daphnia magna (water flea)) (OECD 202)  
 \*Read across from supporting substance (structural analogue)  
 EC50/48h

Fish Toxicity 150 mg/l (Danio rerio) (OECD 203)  
 LC50/96h

**122-51-0 Triethyl orthoformate**

Algae Toxicity 68 mg/l (Test species: n/a) (EC50 (96 hrs); QSAR calculation)

Crustacean Toxicity 617 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs); EU Method C2)

Fish Toxicity 592 mg/l (Leuciscus idus (Ide or Orfe)) (LC50 (48 hrs); DIN 38412 Teil 15)  
 NOEC (30 days) = 35.2 mg/l; when considering the weight of all evidence, the substance was not classified as an environmental hazard.  
 Reference: ECHA (2012).

· **Aquatic Environmental Toxicity Assessment:** No further relevant information; classification is not possible.

· **Degradability and Stability**

**122-51-0 Triethyl orthoformate**

Biodegradation readily (Test species: n/a)  
 Biodegradation (EPA OTS 796.3260; 28 days; CO<sub>2</sub> evolution) = 100%; the substance is readily biodegradable.

Persistence (Test species: n/a)  
 The substance is not persistent.  
 Reference: Canada DSL (2007).

Photodegradation (No data available)

Stability in water (Test species: n/a)  
 Half-life (pH=7; at 25 °C) = 5 hours  
 Reference: ECHA (2012).

· **Bioaccumulation and Distribution**

**37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3propanediol**

LogPow 2.4 (Not applicable) (OECD 117)

**122-51-0 Triethyl orthoformate**

BCF (No data available)  
 The substance is not bioaccumulative.  
 Reference: Canada DSL (2007).

Koc (No data available)

LogPow 1.2 (Test species: n/a) (pH=7; at 20 °C)  
 Reference: ECHA (2012).

· **Degradability and Bioaccumulation Assessment:** Non-rapidly degradable, and low bioaccumulative.

· **Additional Information** No further relevant information.

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### 13 Disposal considerations

· **Hazardous Waste List**

· **Description:** Not regulated as a hazardous waste for disposal.

· **Waste Treatment Recommendation:**

Generation of waste should be avoided or minimized wherever possible.

Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.

Dispose of contents/containers in accordance with local, regional, national, and international regulations.

· **Unused and Uncontaminated Packagings**

· **Recommendation** Dispose of according to your local waste regulations.

### 14 Transport information

· **UN-Number**

Not regulated for transport; not applicable.

· **DOT, ADR, IMDG, IATA**

· **UN Proper Shipping Name**

· **DOT, ADR, IMDG, IATA**

· **Transport hazard class(es)**

Not regulated for transport; not applicable.

· **DOT, ADR, ADN, IMDG, IATA**

· **Class**

· **Packing group**

Not regulated for transport; not applicable.

· **DOT, ADR, IMDG, IATA**

· **Environmental Hazards:**

Not applicable.

· **Special Precautions:**

Not applicable.

· **Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

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### 15 Regulatory information

· **USA Regulation Lists**

· **SARA (Superfund Amendments and Reauthorization Act of 1986)**

· **Section 302 (Extremely Hazardous Substances)**

None of the ingredients is listed.

· **Section 313 (Toxics Release Inventory (TRI) reporting)**

None of the ingredients is listed.

· **Section 311/312 (Hazardous Chemical Inventory Reporting)**

None of the ingredients is listed.

· **Hazard Abbreviations for SARA 311/312**

A - Acute Health Hazard

C - Chronic Health Hazard

F - Fire Hazard

R - Reactive Hazard

S - Sudden Release of Pressure Hazard

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· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65**

· **Chemicals Known to Cause Cancer**

None of the ingredients is listed.

· **Chemicals Known to Cause Reproductive Toxicity for Females**

None of the ingredients is listed.

· **Chemicals Known to Cause Reproductive Toxicity for Males**

None of the ingredients is listed.

· **Chemicals Known to Cause Developmental Toxicity**

None of the ingredients is listed.

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value Established by ACGIH)**

77-58-7 Dibutyltin dilaurate

A4

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

None of the ingredients is listed.

· **International Regulation Lists**

· **Canadian Domestic Substance Listings:**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

122-51-0 Triethyl orthoformate

· **Chinese Chemical Inventory of Existing Chemical Substances:**

All ingredients are listed.

· **Japanese Existing and New Chemical Substance List:**

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122-51-0 Triethyl orthoformate

110-63-4 butane-1,4-diol

502-44-3 hexan-6-olide

77-58-7 Dibutyltin dilaurate

· **Korean Existing Chemical Inventory:**

All ingredients are listed.

· **European Pre-registered substances:**

All ingredients are listed.

· **REACH - Substances of Very High Concern (SVHC) List:**

None of the ingredients is listed.

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**· Restriction of Hazardous Substances Directive (RoHS) list:**

None of the ingredients is listed.

### 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.*

- **Department Issuing (M)SDS:** Product Safety Department
- **Contact:** msds@resinlab.com

**· Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists  
 ACToR: US EPA Aggregated Computational Toxicology Resource  
 ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road  
 BCF: Bioconcentration Factor  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System  
 CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform  
 DOT: US Department of Transportation  
 DSL: Canada Domestic Substance List  
 ESIS: European Chemical Substances Information System  
 HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System  
 HSDB: US NLM TOXNET Hazardous Substances Databank  
 HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database  
 IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)  
 IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)  
 ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)  
 ICSC: International Chemical Safety Cards  
 IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG)  
 Koc: Partition coefficient, soil Organic Carbon to water  
 LC50/LD50: Lethal Concentration/Dose, 50 percent  
 N/a: Not available or Not applicable  
 NFPA: US National Fire Protection Association  
 NIOSH: US National Institute of Occupational Safety and Health  
 NITE: National Institute of Technology and Evaluation, Japan  
 OECD: Organisation for Economic Co-operation and Development  
 OSHA: US Occupational Safety and Health Administration  
 P: Marine Pollutant  
 RCRA: Resource Conservation and Recovery Act (USA)  
 REACH: EU Registry, Evaluation and Authorisation of Chemicals  
 RID: the Regulations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International Carriage by Rail (OTIF)  
 RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN)  
 RTECS: US Registry of Toxic Effects of Chemical Substances  
 SARA: US Superfund Amendments and Reauthorization Act  
 SIDS: OECD existing chemicals Screening Information Data Sets  
 SVHC: EU ECHA Substance of Very High Concern  
 TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)  
 TOXLINE: US NLM bibliographic database search system  
 TSCA: US Toxic Substance Control Act

- **Date of preparation / last revision** 02/18/2015 / 2