

Safety Data Sheet acc. to OSHA HCS

Print Date 09/21/2016

Revision Date 09/21/2016

- **Product Identifier**
 - **Trade Name:** UR7001 Clear A
 - **Application of the Substance or Mixture:** Polyols
- **Details of the Supplier of the Safety Data Sheet (SDS)**
 - **Manufacturer or Supplier:**
 Resinlab, LLC
 N109 W13300 Ellsworth Drive
 Germantown, WI 53022
 1-877-259-1669
 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**
 Eye Dam. 2B H320 Causes eye irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 Repr. 1 H360 May damage fertility or the unborn child.
- **Label Elements**
 - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
 - **Pictogram(s)**



- **Signal Word** Danger
- **Hazard-determining Component(s)**
 Dibutyltin dilaurate
- **Hazard statements**
 H320 Causes eye irritation.
 H317 May cause an allergic skin reaction.
 H360 May damage fertility or the unborn child.
- **Precautionary statements**
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wear protective gloves/protective clothing/eye protection/face protection.
 Wash thoroughly after handling.
 Do not handle until all safety precautions have been read and understood.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Wash contaminated clothing before reuse.
 IF exposed or concerned: Get medical advice/attention.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 IF ON SKIN: Wash with plenty of water.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard Rating System**
 - **NFPA System**
 - **NFPA Ratings (scale 0 - 4)**



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

- **HMS System**
 - **HMS Ratings (scale 0 - 4)**



- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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3 Composition/information on ingredients

Chemical Characterization: Mixtures

Composition/Information on Ingredients

	Polyester Polyol-CAS number withheld as permitted by 29CFR1910.1200(i). Eye Dam. 2B, H320	90-100%
CAS: 77-58-7 EINECS: 201-039-8 RTECS: WH 7000000	Dibutyltin dilaurate Muta. 2, H341; Repr. 1B, H360; STOT RE 1, H372 Skin Corr. 1C, H314; Eye Dam. 1, H318 Skin Sens. 1, H317	0.1-<1%
CAS: 125304-04-3	Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-, branched and linear Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-1%

Classification System:

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

Additional Information:

If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

4 First-aid measures

Description of First Aid Measures

General Information

Ensure medical personnel are aware of exposure and take precautions for their personal protection; see Section 8 for the information of personal protection.

After Inhalation

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.
In case of unconsciousness place patient stably in side position for transportation.
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.

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 (CO₂).

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.

Special Hazards Arising in Fire

Will not burn unless preheated.

In case of fire, following can be released:

Carbon dioxide (CO₂) 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

Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.

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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.

Absorb residues with liquid-binding materials.

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.

For industrial or professional use only

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**

Store in a well-ventilated place; provide ventilation for 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.

8 Exposure controls/personal protection

 • **Engineering Measures or Controls**

 • **Exposure Limit Values that Require Monitoring at the Workplace**
Polyester Polyol-CAS number withheld as permitted by 29CFR1910.1200(i).

 TWA Short-term value: 10 mg/m³
aerosol

77-58-7 Dibutyltin dilaurate

 PEL Long-term value: 0.1 mg/m³
as Sn

 REL Long-term value: 0.1 mg/m³
as Sn, Skin

 TLV Short-term value: 0.2 mg/m³
Long-term value: 0.1 mg/m³
as Sn; Skin

 • **Additional Information for the Limit Values**

As a classified TERATOGEN to humans, there may be NO safe level of exposure; reduce all contact to the lowest possible level.

 • **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 contact with eyes.

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

 • **Personal Protective Equipment (PPE)**

 • **Breathing Equipment**

Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

 • **Hand Protection**

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 with side shields and or face shield.

tightly sealed goggles and face shields if the potential for splashing occurs.

 • **Body Protection** Chemical resistant apron; cover exposed skin.

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Additional Information

All protective clothing (suits, gloves, footwear, headgear) should be clean, available every day, and put on before work.
 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.

- **Change in Condition:** Not determined.
- **Melting Point:** Not determined.
- **Boiling Point:** Not determined.
- **Flash Point:** > 93 °C (> 199 °F)
- **Decomposition Temperature:** Not determined.
- **Flammability:** Not determined.
- **Explosion:** Not determined.
- **Explosion Limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.

- **Vapor Pressure:** Not determined.
- **Vapor Density:** not determined
- **Density at 20 °C (68 °F):** 1.18 g/cm³ (9.847 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)** Oxidizing agents
- **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

Polyester Polyol-CAS number withheld as permitted by 29CFR1910.1200(i).

Oral LD50 >5000 mg/kg (rabbit)

- **Potential Health Effect(s):** See acute inhalative effect(s) for further information

Dermal

Polyester Polyol-CAS number withheld as permitted by 29CFR1910.1200(i).

Dermal LD50 >5000 mg/kg (rabbit)

- **Potential Health Effect(s):**
 No further relevant information available; classification is not possible.
 See acute inhalative effect(s) for further information.

Inhalative

- **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):

Skin Corrosion or Irritation

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

Eye Serious Damage or Irritation

Polyester Polyol-CAS number withheld as permitted by 29CFR1910.1200(i).

Damage/Irritation (Test species: n/a)
 Causes eye irritation.

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- **Potential Health Effect(s):**
Causes eye irritation.
In contact with eye, may cause:
redness and pain
unlikely to cause corneal injuries
- **Respiratory or Skin Sensitization**
- **Potential Health Effect(s):**
May cause an allergic skin reaction.
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**
- **Potential Health Effect(s):** No further relevant information; classification is not possible.

· **Carcinogenicity**

Polyester Polyol-CAS number withheld as permitted by 29CFR1910.1200(i).

Carcinogenicity negative (Test species: n/a)

Not considered to be carcinogenic by IARC, ACGIH, NTP or OSHA.

- **Potential Health Effect(s):** Not a known Carcinogen.
- **Reproductive Toxicity**
- **Potential Health Effect(s):** May damage fertility or the unborn child.
- **Specific Target Organ Toxicity - Single Exposure**
- **Potential Health Effect(s):** No further relevant information; classification is not possible.
- **Aspiration Hazard**
- **Potential Health Effect(s):** No relevant information; classification is not possible.

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

12 Ecological information

· **Aquatic Environmental Toxicity**

Polyester Polyol-CAS number withheld as permitted by 29CFR1910.1200(i).

Algae Toxicity >100 mg/l (Green Algae)

Crustacean Toxicity >100 mg/l (Daphnia magna (water flea))

Fish Toxicity >100 mg/l (Test species: n/a)

- **Aquatic Environmental Toxicity Assessment:** No further relevant information; classification is not possible.
- **Degradability and Bioaccumulation Assessment:** Non-rapidly degradable, and low bioaccumulative.

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

13 Disposal considerations

- **Hazardous Waste List**
- **Description:** It may be necessary to contain and dispose of the substance/mixture as a hazardous waste.
- **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, ADN, IMDG, IATA | Not Regulated |
| · UN Proper Shipping Name | Not Regulated |
| · DOT, ADN, IMDG, IATA | Not Regulated |
| · Transport hazard class(es) | Not regulated for transport; not applicable. |
| · DOT, ADR, ADN, IMDG, IATA | Not Regulated |
| · Class | Not Regulated |
| · Packing group | Not regulated for transport; not applicable. |
| · DOT, ADR, IMDG, IATA | Not Regulated |
| · 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": | Not Regulated |

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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

• TSCA (Toxic Substances Control Act)

122-51-0 Triethyl orthoformate

77-58-7 Dibutyltin dilaurate

125304-04-3 Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-, branched and linear

41556-26-7 bis(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate

125643-61-0 reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

82919-37-7 Methyl 1,2,2,6,6,-pentamethyl-4-piperidyl sebacate

• 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

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

None of the ingredients is listed.

• International Regulation Lists

• Canadian Domestic Substance Listings:

122-51-0 Triethyl orthoformate

77-58-7 Dibutyltin dilaurate

125304-04-3 Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-, branched and linear

41556-26-7 bis(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate

125643-61-0 reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

82919-37-7 Methyl 1,2,2,6,6,-pentamethyl-4-piperidyl sebacate

• Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

• Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

• Chinese Chemical Inventory of Existing Chemical Substances:

122-51-0 Triethyl orthoformate

77-58-7 Dibutyltin dilaurate

125304-04-3 Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-, branched and linear

41556-26-7 bis(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate

125643-61-0 reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

82919-37-7 Methyl 1,2,2,6,6,-pentamethyl-4-piperidyl sebacate

• Japanese Existing and New Chemical Substance List:

122-51-0 Triethyl orthoformate

77-58-7 Dibutyltin dilaurate

41556-26-7 bis(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate

• Korean Existing Chemical Inventory:

122-51-0 Triethyl orthoformate

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77-58-7	Dibutyltin dilaurate
41556-26-7	bis(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate
82919-37-7	Methyl 1,2,2,6,6,-pentamethyl-4-piperidyl sebacate
European Pre-registered substances:	
122-51-0	Triethyl orthoformate
77-58-7	Dibutyltin dilaurate
125304-04-3	Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-, branched and linear
41556-26-7	bis(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate
82919-37-7	Methyl 1,2,2,6,6,-pentamethyl-4-piperidyl sebacate
REACH - Substances of Very High Concern (SVHC) List:	
None of the ingredients is listed.	
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 09/21/2016 / -

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