

SECTION 1: Identification

1.1. Identification

Product name : UR3001HP2 Clear B

1.2. Recommended use and restrictions on use

 Recommended use : Polyol
 Restrictions on use : Product for industrial use only

1.3. Supplier

 ResinLab, LLC
 N109 W13300 Ellsworth Drive
 Germantown, WI 53022 - United States
 T 1-877-259-1669
msds@resinlab.com - www.resinlab.com

1.4. Emergency telephone number

Emergency number : CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Reproductive toxicity Category 2 H361 Suspected of damaging fertility or the unborn child

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :


 Signal word (GHS US) : Warning
 Hazard statements (GHS US) : H361 - Suspected of damaging fertility or the unborn child
 Precautionary statements (GHS US) : P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P308+P313 - If exposed or concerned: Get medical advice/attention.
 P391 - Collect spillage.
 P405 - Store locked up.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % |
|--|---------------------|---------|
| Diundecyl phthalate (DUP) | (CAS-No.) 3648-20-2 | 10 – 30 |
| 2,2'-Methylenebis(4-methyl-6-tert-butylphenol) | (CAS-No.) 119-47-1 | 1 – 5 |

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Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- | | |
|---------------------------------------|--|
| First-aid measures general | : IF exposed or concerned: Get medical advice/attention. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center/doctor/physician if you feel unwell. |

4.2. Most important symptoms and effects (acute and delayed)

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- | | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use water jet to extinguish. |

5.2. Specific hazards arising from the chemical

- | | |
|--|---|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released, Carbon oxides (CO, CO ₂) |
|--|---|

5.3. Special protective equipment and precautions for fire-fighters

- | | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- | | |
|----------------------|---|
| Emergency procedures | : Only qualified personnel equipped with suitable protective equipment may intervene. |
|----------------------|---|

6.1.2. For emergency responders

- | | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- | | |
|-------------------------|---|
| For containment | : Collect spillage. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-------------------------------|--|
| Precautions for safe handling | : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. |
| Hygiene measures | : Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

- | | |
|--------------------|---|
| Storage conditions | : Store locked up. Store in a well-ventilated place. Keep cool. |
|--------------------|---|

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diundecyl phthalate (DUP) (3648-20-2)

Not applicable

2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)

Not applicable

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses with side shields

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation, wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--------------------------|
| Physical state | : Liquid |
| Color | : Amber |
| Odor | : Sweet |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : > 200 °C |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability | : Not applicable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : No data available |
| Density | : 0.91 g/cm ³ |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |

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| | |
|---------------------------|---------------------|
| Decomposition temperature | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| VOC content | No data available |

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures. Direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents. acid. Bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Diundecyl phthalate (DUP) (3648-20-2) | |
|--|---|
| LD50 oral rat | > 15800 mg/kg (Rat, Oral) |
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit | > 7900 mg/kg (Rabbit, Dermal) |

| 2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1) | |
|--|--|
| LD50 oral rat | > 10000 mg/kg body weight (Rat, Male, Experimental value, Oral) |
| LD50 dermal rabbit | > 10000 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal) |

| | |
|-----------------------------------|------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

| 2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1) | |
|--|--|
| NOAEL (chronic,oral,animal/male,2 years) | 12.7 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other: |
| NOAEL (chronic,oral,animal/female,2 years) | 15.1 mg/kg body weight Animal: rat, Animal sex: female, Remarks on results: other: |

| | |
|------------------------|--|
| Reproductive toxicity | : Suspected of damaging fertility or the unborn child. |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |

| Diundecyl phthalate (DUP) (3648-20-2) | |
|--|--|
| LOAEL (oral,rat,90 days) | 500 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |

| | |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

| Diundecyl phthalate (DUP) (3648-20-2) | |
|---------------------------------------|---|
| EC50 - Crustacea [1] | > 0.02 mg/l Test organisms (species): Daphnia magna |
| NOEC (chronic) | 0.059 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 0.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '155 d' |

| 2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1) | |
|---|--|
| LC50 - Fish [1] | > 5 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | > 4.8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| LOEC (chronic) | 0.89 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0.34 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

12.2. Persistence and degradability

| Diundecyl phthalate (DUP) (3648-20-2) | |
|---------------------------------------|--|
| Persistence and degradability | Biodegradability in soil: no data available. Biodegradable in water. |

| 2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1) | |
|---|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

12.3. Bioaccumulative potential

| Diundecyl phthalate (DUP) (3648-20-2) | |
|---|---------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.95 – 12.1 |
| Bioaccumulative potential | Bioaccumable. |

| 2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1) | |
|---|--|
| BCF - Fish [1] | 320 – 840 (OECD 305: Bioconcentration: Flow-Through Fish Test, 60 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | 6.25 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C) |
| Bioaccumulative potential | Potential for bioaccumulation (500 ≤ BCF ≤ 5000). |

12.4. Mobility in soil

| 2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1) | |
|--|---|
| Surface tension | Not applicable (solid) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 4.7 – 6.3 (log Koc, EPIWIN 2.00, Estimated value) |
| Ecology - soil | Low potential for mobility in soil. |

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not applicable

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Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Diundecyl phthalate (DUP) (3648-20-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Diundecyl phthalate (DUP) (3648-20-2)

Listed on the Canadian DSL (Domestic Substances List)

2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Contains the following REACH ingredient(s): 2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (EC 204-327-1, CAS 119-47-1)

Diundecyl phthalate (DUP) (3648-20-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Diundecyl phthalate (DUP) (3648-20-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (119-47-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases:

| | |
|------|---|
| H361 | Suspected of damaging fertility or the unborn child |
| H401 | Toxic to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |

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SDS US - ResinLab

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.