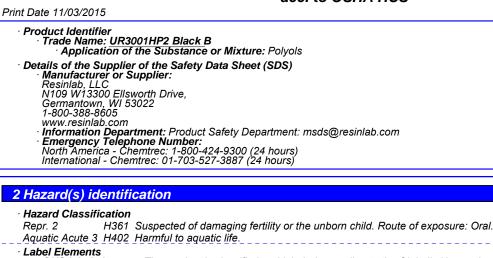


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GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Pictogram(s)



Signal Word Warning

Hazard-determining Component(s)
 2.2'-Methylenebis(4-methyl-6-tert-butylphenol)
 Hazard statements
 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

Harmful to aquatic life. Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment. Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/attention.

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



Other hazards

PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients		
Chemical Characterization: Mixtures Composition/Information on Ingredients		]
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol EINECS: 204-881-4 RTECS: GO 7875000	Aquatic Acute 1, H400 Acute Tox. 4, H302	1-2.5%
		(Contd. on page 2)



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CAS: 119-47-1 2.2'-Methylenebis(4-methyl-6-tert-butylphenol)	(Co	ntd. of pa
EINECS: 204-327-1	Repr. 2, H361 Aquatic Chronic 4, H413	1-2.
CAS: 77-58-7 Dibutyltin dilaurate EINECS: 201-039-8 RTECS: WH 7000000	Muta. 2, H341; Repr. 1B, H360; STOT RE 1, H372 Skin Corr. 1C, H314; Eye Dam. 1, H318 Skin Sens. 1, H317	2 0-<0
<ul> <li>Classification System: The Classifications were based on the Toxicological and Ecological L Additional Information: If the chemical name/CAS number is proprietary and or weight per percentage of composition has been withheld as a trade secret.</li> </ul>		
4 First-aid measures		
<ul> <li>Description of First Aid Measures         <ul> <li>General Information</li> <li>Ensure medical personnel are aware of exposure and take precautio personal protection.</li> </ul> </li> </ul>	ns for their personal protection; see Section 8 for the	informati
<ul> <li>After Inhalation Remove victim from exposure to fresh air. Keep person at rest. Prov Supply fresh air; consult doctor in case of complaints.</li> </ul>	ide oxygen if person is not breathing.	
<ul> <li>After Skin Contact Gently wash contaminated skin with water. Remove all contaminated clothing and wash before reuse. Seek medical treatment in case of complaints.</li> </ul>		
<ul> <li>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.</li> </ul>		
<ul> <li>After Swallowing If victim is unconscious; never give anything by mouth. If victim is conscious; rinse out mouth and give victim small amounts Seek medical treatment in case of complaints.</li> </ul>	of water.	
<ul> <li>After Exposure Seek medical treatment in case of complaints.</li> </ul>		
<ul> <li>Information for Doctor Have chemical containers, labels and/or (M).</li> <li>Indication of any Immediate Medical Attention and Special Ti liver tests lung tests</li> <li>Reproductive system function tests</li> </ul>	SDS ready when calling or visiting a medical center. eatment Needed	
thyroid tests Check section 11 Toxicological Information for further relevant inf	ormation.	
• Additional Information For additional information, please consult the corresponding first aid		ncy Resp
Guidebook which is produced by the US Department of Transportation.	- 	
5 Fire-fighting measures		
· Extinguishing Media		
· Suitable Extinguishing Agent(s)	ran mant	
Use fire fighting measures and extinguishing agents that suit the envi In case of fire, suitable extinguishing agents are:	ionnem.	
Alcohol resistant foam. Dry chemical or fire-extinguishing powder.		
Carbon dioxide (CO <sub>2</sub> ).		
Water spray or water fog. • <b>Unsuitable Extinguishing Agent(s)</b> 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 a	nd minimize property damage.	
Fight fire from protected location or safe distance. Contain fire water runoff if possible to prevent environmental pollution.		
• <b>Special Hazards Arising in Fire</b> Will not burn unless preheated. In case of fire, following can be released:		
Various hydrocarbons		
pyrolysis products or 1,3 butadiene Carbon dioxide (CO₂) and Carbon monoxide (CO)		
• Advice for Firefighters If employees are expected to fight fires, they must be trained and e 1910.156).		<i>dard (29</i> ntd. on pa



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Trade Name: UR3001HP2 Black B

(Contd. of page 2) 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. 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**

**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.

### 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. Be prepared with respirators.
- Storage Store between 75 and 95 degrees F.
   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 antirized place. 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		
128-37-0 2,6-di-tert-butyl-p-cresol		
REL Long-term value: 10 mg/m <sup>3</sup>		
TLV Long-term value: 2* mg/m <sup>3</sup>		
*as inhalable fraction and vapor		
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		
<ul> <li>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.     </li> </ul>	,	
<ul> <li>Personal Protective         General Protective and Hygienic Measures         Do not eat, drink or smoke during work.         Clean hands and exposed skin thoroughly after work and before breaks.</li> </ul>		
Personal Protective Equipment (PPE) Breathing Equipment No breathing equipment required. 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		



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#### · Body Protection Lab coat is required.

#### · Additional Information

Additional monitation 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

<ul> <li>Information on Basic Physical ar</li> </ul>	nd Chemical Properties	
· Appearance:	·····	
Form:	Liquid	
· Color:	Black	
· Odor:	Characteristic	
· Odor Threshold:	Not determined.	
· PH-Value:	Not determined.	
· Change in Condition:		
• Melting Point:	Not determined.	
Boiling Point:	>187 °C (>369 °F)	
· Flash Point:	>190 °C (>374 °F)	
<ul> <li>Decomposition Temperature</li> </ul>	: Not determined.	
· Flammability:	Not determined.	
• Explosion:	Not determined.	
• Explosion Limits:		
Lower:	Not determined.	
· Upper:	Not determined.	
· Vapor Pressure:	Not determined.	
· Vapor Density:	not determined	
<ul> <li>Density at 20 °C (68 °F):</li> </ul>	0.99 g/cm <sup>3</sup> (8.262 lbs/gal)	
Solubility in or Miscibility wit	h	
· Water:	Not miscible or difficult to mix.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic:	Not determined.	

### 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) In contact with incompatible materials.

Incompatible Material(s) Oxidizing agents Acids Bases (Alkalis)

- 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.

### 11 Toxicological information

· Acute Tox	icity
· Oral	
69102-90-5	5 1,3-Butadiene, homopolymer, hydroxy-terminated
Oral LD50	(No data available)
3648-20-2	Diundecyl phthalate (DUP)
Oral LD50	> 15800 mg/kg (rat) (No mortality found) The substance was not classified as an acute oral hazard. Reference: ECHA (2011).
	,6-di-tert-butyl-p-cresol
	> 2930 mg/kg (rat) (LD0; OECD TG 401) No mortality, and no effects were observed for clinical signs, body weight and gross examination. The substance was therefore not classified as an acute oral hazard. Reference: ECHA (2012) and OECD SIDS (2002).
119-47-1 2	,2'-Methylenebis(4-methyl-6-tert-butylphenol)
Oral LD50	(rat) (LD0 ≥ 5000 mg/kg; no death occurred) Reference: ECHA (2011).
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<b>n</b> _4!-	(Contd. of page
	I Health Effect(s):
abnorma	l pain
nausea	
vomiting	
dizziness	e inhalative effect(s) for further information
· Dermal	
	Butadiene, homopolymer, hydroxy-terminated
Dermal LD50 (	No data available)
3648-20-2 Diunc	lecyl phthalate (DUP)
	at) (LD0(OECD TG 402) ≥2000 mg/kg: No mortality found)
Ň	of mortality or any health effects found in males or females; the substance was not classified as an acute dermal hazard. eference: ECHA (2011).
	ert-butyl-p-cresol
Dermai LDS0 Z N W R	2000 mg/kg (rat) (LD0; OECD TG 402; occlusive) o mortality, and no effects were observed with regard to clinical signs, body weight and gross examination. The substan as therefore not classified as an acute dermal hazard. eference: OECD SIDS (2002).
119-47-1 2.2'-Me	thylenebis(4-methyl-6-tert-butylphenol)
	abbit) (LD0 ≥ 10000 mg/kg; no death occurred)
N	aboli, (EDG = 10000 might), no control occurred) o mortality or any clinical signs of toxicities observed at 10000 mg/kg bw. eference: ECHA (2011).
Potentia	I Health Effect(s):
No furthe	r relevant information available; classification is not possible. e inhalative effect(s) for further information.
· Inhalative	
	Sutadiana bamanalumar budeasu tarminatad
	Butadiene, homopolymer, hydroxy-terminated
	4 h (No data available)
3648-20-2 Diunc	lecyl phthalate (DUP)
Inhalative LC50/	4 h (rat) (No mortality found at the saturated concentration)
	LC0/6 hours (150 °C) > 1.8 mg/L No mortality was observed up to the saturated vapor concentration of 1.8 mg/L; the substance was not classified an acute inhalative hazard. Reference: ECHA (2011).
128-37-0 2 6-di-	ert-butyl-p-cresol
	4 h (No data available)
	thylenebis(4-methyl-6-tert-butylphenol)
Inhalative LC50/	
	4 n (No data available)
Potentia While no	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s):
Potentia	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s):
<b>Potentia</b> While no cough sore thro	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at
Potentia While no cough sore thro Skin Corros	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-B	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Butadiene, homopolymer, hydroxy-terminated
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-B	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Butadiene, homopolymer, hydroxy-terminated In Slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005).
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatio 3648-20-2 Diunc	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Butadiene, homopolymer, hydroxy-terminated In Slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) In Slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs)
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatio 3648-20-2 Diunc	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Butadiene, homopolymer, hydroxy-terminated n slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) n slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3)
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic 3648-20-2 Diunc Corrosion/Irritatic	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Butadiene, homopolymer, hydroxy-terminated n slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) n slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3). Reference: ECHA (2011).
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Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic 3648-20-2 Diunc Corrosion/Irritatic	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Butadiene, homopolymer, hydroxy-terminated In Slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) In Slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3). Reference: ECHA (2011). ert-butyl-p-cresol In Slightly (rabbit) (Patch test; Semiocclusive; neat substance) Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: 0 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: 0 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs).
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic 3648-20-2 Diunc Corrosion/Irritatic 128-37-0 2,6-di-1 Corrosion/Irritatic	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Butadiene, homopolymer, hydroxy-terminated In Slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) In Slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3). Reference: ECHA (2011). ert-butyl-p-cresol In Slightly (rabbit) (Patch test; Semiocclusive; neat substance) Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: ECHA (2011).
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic 3648-20-2 Diunc Corrosion/Irritatic 128-37-0 2,6-di-1 Corrosion/Irritatic	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Sutadiene, homopolymer, hydroxy-terminated in slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) in slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3). Reference: ECHA (2011). ert-butyl-p-cresol in slightly (rabbit) (Patch test; Semiocclusive; neat substance) Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). The substance was considered as slightly irritating (Category 3) to rabbit skin. Reference: ECHA (2011). thylenebis(4-methyl-6-tert-butylphenol)
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic 3648-20-2 Diunc Corrosion/Irritatic 128-37-0 2,6-di-1 Corrosion/Irritatic	I Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Butadiene, homopolymer, hydroxy-terminated In Slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) In Slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3). Reference: ECHA (2011). ert-butyl-p-cresol In Slightly (rabbit) (Patch test; Semiocclusive; neat substance) Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: ECHA (2011).
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic 3648-20-2 Diunc Corrosion/Irritatic 128-37-0 2,6-di-1 Corrosion/Irritatic	I Health Effect(s): possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Butadiene, homopolymer, hydroxy-terminated in slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) in slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3). Reference: ECHA (2011). ert-butyl-p-cresol in slightly (rabbit) (Patch test; Semiocclusive; neat substance) Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.3 (Max. 8; Intact skin; time point: 24+72 hrs). The substance was considered as slightly irritating (Category 3) to rabbit skin. Reference: ECHA (2011). thylenebis(4-methyl-6-tert-butylphenol) n not irritating (rabbit) (OECD TG 404) Primary dermal irritation index (24+48+72 hours) = 0/6 (Max. 6; mean score of all treated animals); the substance w not irritating to rabbit skin. Reference: ECHA (2011).
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic 3648-20-2 Diunc Corrosion/Irritatic 128-37-0 2,6-di-t Corrosion/Irritatic 119-47-1 2,2'-Me Corrosion/Irritatic	I Health Effect(s): possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation m slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) m slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3). Reference: ECHA (2011). ert-butyl-p-cresol m slightly (rabbit) (Patch test; Semiocclusive: neat substance) Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.7 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: 0.4 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: ECHA (2011). tylenebis(4-methyl-6-tert-butylphenol) n not irritating (rabbit) (OECD TG 404) Primary dermal irritation index (24+48+72 hours) = 0/6 (Max. 6; mean score of all treated animals); the substance wa not irritating to rabbit skin. Reference: ECHA (2011). Irritation score: 0.10 (2011). Hylenebis(4-methyl-6-tert-butylphenol) n not irritating (rabbit) (OECD TG 404) Primary dermal irritation index (24+48+72 hours) = 0/6 (Max. 6; mean score of all treated animals); the substance wa not irritating to rabbit skin. Reference: ECHA (2011). I Health Effect(s): No further relevant information; classification is not possible.
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic 3648-20-2 Diunc Corrosion/Irritatic 128-37-0 2,6-di-t Corrosion/Irritatic 119-47-1 2,2'-Me Corrosion/Irritatic	I Health Effect(s): possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Sutadiene, homopolymer, hydroxy-terminated n slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) n slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3). Reference: ECHA (2011). ert-butyl-p-cresol n slightly (rabbit) (Patch test; Semiocclusive; neat substance) Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). The substance was considered as slightly irritating (Category 3) to rabbit skin. Reference: ECHA (2011). thylenebis(4-methyl-6-tert-butylphenol) n or irritating (rabbit) (OECD TG 404) Primary dermal irritation index (24+48+72 hours) = 0/6 (Max. 6; mean score of all treated animals); the substance was Reference: ECHA (2011). I Health Effect(s): No further relevant information; classification is not possible. Damage or Irritation
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic 3648-20-2 Diunc Corrosion/Irritatic 128-37-0 2,6-di-t Corrosion/Irritatic 119-47-1 2,2'-Me Corrosion/Irritatic	I Health Effect(s): possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Butadiene, homopolymer, hydroxy-terminated in slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). IecvI phthalate (DUP) in Slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 111 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3). Reference: ECHA (2011). ert-butyl-p-cresol in slightly (rabbit) (Patch test; Semiocclusive; neat substance) Irritation score: 0.3 - 0.7 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.3 (Max. 8; Abraded skin; time point: 24+72 hrs). Irritation score: 0.4 (2011). thylenebis(4-methyl-6-tert-butylphenol) n not irritating (rabbit) (OECD TG 404) Primary dermal irritation index (24+48+72 hours) = 0/6 (Max. 6; mean score of all treated animals); the substance w not irritating to rabbit skin. Reference: ECHA (2011). I Health Effect(s): No further relevant information; classification is not possible. Damage or Irritation Butadiene, homopolymer, hydroxy-terminated
Potentia While no cough sore thro Skin Corros 69102-90-5 1,3-E Corrosion/Irritatic 3648-20-2 Diunc Corrosion/Irritatic 128-37-0 2,6-di-t Corrosion/Irritatic 119-47-1 2,2'-Me Corrosion/Irritatic	I Health Effect(s): possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): at ion or Irritation Sutadiene, homopolymer, hydroxy-terminated n slightly irrit. (Test species: n/a) Although no appropriate human or animal health effects data were known to exist, this substance was expected to be slight skin irritant. Reference: Sartomer (M)SDS (2005). Iecyl phthalate (DUP) n slightly irrit. (rabbit) (Federal Register 1500.51.1973) Erythema: 1/1 (Max. 1; 1 out of 6 animals at 24 hrs; 4 out of 6 animals at 48 hrs) Edema: 0 (6 out of 6 animals) The substance was determined to be slightly irritating to skin (Category 3). Reference: ECHA (2011). ert-butyl-p-cresol n slightly (rabbit) (Patch test; Semiocclusive; neat substance) Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). Irritation score: 0.3 - 0.7 (Max. 8; Intact skin; time point: 24+72 hrs). The substance was considered as slightly irritating (Category 3) to rabbit skin. Reference: ECHA (2011). thylenebis(4-methyl-6-tert-butylphenol) n or irritating (rabbit) (OECD TG 404) Primary dermal irritation index (24+48+72 hours) = 0/6 (Max. 6; mean score of all treated animals); the substance was Reference: ECHA (2011). I Health Effect(s): No further relevant information; classification is not possible. Damage or Irritation



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Trade Name: UR3001HP2 Black B

	(Contd. of page
3648-20-2 Di	undecvl phthalate (DUP)
Damage/Irrita	tion slightly irrit. (rabbit) (0.1mL pure substance) conjunctivae = 4, 3.3, and 0 (at 1, 24, and 48 hrs respectively; Max. 110; mean scores of all animals) cornea = 0 (1+24+48 hrs; mean score of all animals) irris = 0 (1+24+48 hrs; mean score of all animals) The substance was slightly irritating to rabbit eyes (Category 2B). Reference: ECHA (2011).
120 27 0 2 6	di-tert-butyl-p-cresol
	tion   slightly (rabbit)
Damago/ima	<ul> <li>Corriea: 0/4 (Max. score: 4; Time point: 24h+48h+72h; mean score of all treated animals)</li> <li>Iris: 0/2 (Max. score: 2; Time point: 24h+48h+72h; mean score of all treated animals)</li> <li>Conjunctivae: 0.5/3 (Max. score: 3; Time point: 24h+48h+72h; mean score of all treated animals)</li> <li>Chemosis: 0.1/4 (Max. score: 4; Time point: 24h+48h+72h; mean score of all treated animals)</li> <li>Chemosis: 0.1/4 (Max. score: 4; Time point: 24h+48h+72h; mean score of all treated animals)</li> <li>All the symptoms were fully reversible at the end of the test period. The substance was considered as slightly irritati. (Category 2B) to rabbit eyes from the view point of safety.</li> <li>Reference: ECHA (2012).</li> </ul>
119-47-1 2.2	-Methylenebis(4-methyl-6-tert-butylphenol)
	tion not irritating (rabbit) (OECD TG 405) Cornea and Iris: 0 (mean score of all treated animals; time point: 24+48+72 hours) Conjunctivae: 1/3 (Max. 3; 2 out of 3 animals; time point: 24 hours; fully reversible in 72 hours) Conjunctivae: 0/3 (Max. 3; 1 out of 3 animals; time point: 24+48+72 hours) The substance was not irritating to rabbit eyes based on the classification criteria. Reference: ECHA (2011).
· Poter	ntial Health Effect(s): No further relevant information; classification is not possible.
	ory or Skin Sensitization
69102-90-5 1	,3-Butadiene, homopolymer, hydroxy-terminated
Sensitization	
	Respiratory (No data available)
3648-20-2 Di Sensitization	undecyl phthalate (DUP)
	Skin       not sensitizing (Human) (Repeated insult patch test)         No positive reaction was observed in 104 panelists after a repeated administration of 0.2 mL pure substance in 96 hours.         Reference: ECHA (2011).         Respiratory       (No data available)
128-37-0 2,6-	di-tert-butyl-p-cresol
Sensitization	Despite of being in wide dispersive use as an ingredient of various products for many years, only very few cas of allergic reaction in humans after dermal exposure or oral intake have been described. Meanwhile, or negative results were observed from dermal sensitizing tests with animals. Thus, the substance was r classified as a dermal sensitizer when considering the weight of all evidence. Reference: GHS-J (2006).
	Respiratory (No data available)
	-Methylenebis(4-methyl-6-tert-butylphenol)
Sensitization	Stimulation index (Negative controlled group with 0% of the substance): 1.00 Stimulation index (Treated groups with 2%, 10% and 50% of the substance): 1.17, 1.16 and 1.22 respective The substance was not classified as a dermal sensitizer to mice due to insignificant differences between t controlled and treated groups. Reference: ECHA (2011).
Data	Respiratory (No data available)
	ntial Health Effect(s): No relevant information for respiratory sensitization; classification is not possible.
	A-Ca (Occupational Safety & Health Administration)  ngredients is listed.
	Il Mutagenicity
	,3-Butadiene, homopolymer, hydroxy-terminated (No data available)
	undecyl phthalate (DUP)
	negative (Human) (In Vitro (mammalian chromosome aberration)) In Vitro (mammalian chromosome aberration test with OECD TG 473 in human lymphocytes) - negative with and witho metabolic activation In Vitro (mammalian chromosome aberration test with OECD TG 476 in mouse lymphoma cells) - negative with and witho metabolic activation In Vitro (bacterial reverse mutation assay with OECD TG 471 in Salmonella typhimurium) - negative with and witho metabolic activation Reference: ECHA (2011).
	di-tert-butyl-p-cresol
128-37-0 2 6-	



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Mutagenicity         negative (Test species listed below)           In Vitro (AME test; Salmonella typhimurium TA97, TA98, TA100, TA102, TA104, TA1535, TA1537, TA1538, TA2638) - negative with and without metabolic activation.           In Vitro (Mammalian chromosome aberration; Chinese hamster Ovary cells) - negative with and without metabolic activation.           In Vitro (Chromosome aberration; Chinese hamster Ovary cells) - negative with and without metabolic activation.           In Vitro (Chromosome aberration; Chinese hamster Ovary cells) - negative; no adverse effects on chromosomes of femur bone marrow cells of treated rats were observed.           In Vivo (Chromosome aberration; cells of treated rats were observed.           In Vivo (Micronucleus assay; mouse; intraperitoneal with 75 mg/kg bw) - negative; incidence of micronuclei in polychromatic erythrocytes in test group was not statistically different from that in the control at all time points.
Reference: ECHA (2012)
119-47-1 2,2'-Methylenebis(4-methyl-6-tert-butylphenol)
Mutagenicity       negative (Chinese Hamster)         In Vitro (mammalian cell gene mutation assay of Chinese hamster lung fibroblasts (V79) with OECD TG 476) - negative with and without metabolic activation         In Vitro (mammalian cell gene mutation assay of Chinese hamster lung fibroblasts (V79) with OECD TG 476) - negative with and without metabolic activation         In Vitro (mammalian chromosome aberration test of Chinese hamster lung cell line (CHL/IU) with OECD TG 473) - negative with and without metabolic activation         (mouse)       In Vivo (oral with 5000 mg/kg; time point: at 24+48+72 hours; micronucleus assay of mouse NMRI strains with OECD TG 474) - negative; no significant increase of micronucleated polychromatic erythrocytes was observed.
Reference: ECHA (2011).
Potential Health Effect(s): No further relevant information; classification is not possible.
Carcinogenicity 69102-90-5 1,3-Butadiene, homopolymer, hydroxy-terminated
Carcinogenicity negative (Test species: n/a)
The substance was not listed as a Carcinogen by OSHA, ACGIH, NTP or IARC.
3648-20-2 Diundecyl phthalate (DUP)
Carcinogenicity negative (Test species: n/a) (not listed as a Carcinogen by NTP, IARC or OSHA) 128-37-0 2,6-di-tert-butyl-p-cresol
Carcinogenicity negative (Test species: n/a)
Not listed as a carcinogen by ACGIH, NTP, or OSHA; and listed as a Group 3 carcinogen by IARC, which was not classifiable as to its carcinogenicity to humans.
119-47-1 2,2'-Methylenebis(4-methyl-6-tert-butylphenol)
Carcinogenicity (Test species: n/a) Not listed as a carcinogen according to ACGIH, IARC, NTP, or OSHA.
Potential Health Effect(s): Not a known Carcinogen.
· Reproductive Toxicity
69102-90-5 1,3-Butadiene, homopolymer, hydroxy-terminated
Reproductive Toxi. (No data available)
3648-20-2 Diundecyl phthalate (DUP) Reproductive Toxi. (No data available)
128-37-0 2,6-di-tert-butyl-p-cresol
Reproductive Toxi. negative (rat) (2-generation chronic feeding; up to 500 mg/kg bw/d) NOAEL (Reproductive toxicity; Parental animals) = 500 mg/kg bw/day; no adverse effects on fertility were observed. LOAEL (Developmental toxicity) = 500 mg/kg bw/day; reduced body weight of pups at weaning and retarded development were observed at the highest test level. However, the changes were considered to be of negligible toxicological significance; no reproductive/developmental classification can be assigned to the substance. Reference: ECHA (2012).
119-47-1 2,2'-Methylenebis(4-methyl-6-tert-butylphenol)
Reproductive Toxi. N/A (rat) (OECD TG 421; oral with up to 800 mg/kg bw/day) LOAEL (P Generation; male rats) = 50 mg/kg bw/day with effects including giant cell formation in testes, decreased sperm motility ratios, decreased sperms in epididymis cauda, and increased abnormal sperm ratios. LOAEL (P Generation; female rats) = 200 mg/kg bw/day with effects including decreased body weight gain, lower food consumption, decreased number of corpora lutea, decreased number of implantation scars, and decreased number of pup born.
Based on the effects, the substance was classified as a Category 2 reproductive hazard by ECHA. However, the substance was not listed by California 65, or NLM Toxnet. Specific effect: decrease of absolute and relative testis weight; histopathological testis lesions; atrophy and degeneration of testicular tubules; arrest of spermatogenesis in addition to decrease in sperm motility, viability and sperm number; epididepididymis hypospermia; Route of exposure ORAL
• Potential Health Effect(s): Suspected of damaging fertility or the unborn child. Route of exposure: Oral.
Specific Target Organ Toxicity - Single Exposure
69102-90-5 1,3-Butadiene, homopolymer, hydroxy-terminated STOT-Single (No data available)
3648-20-2 Diundecyl phthalate (DUP)
STOT-Single Target: None (rat) (No abnormal health effects found)
No significant abnormal health effects were observed after a single administration with 15800 mg/kg (oral), 2000 mg/kg (dermal), or 1.8 mg/L (inhalation) of the substance. It was therefore not expected to pose a target organ hazard upon single or short-term exposure. Reference: ECHA (2011).
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	(Contd. of page 7)
128-37-0 2,6-di-t	ert-butyl-p-cresol
Tai De we trea wit cla	uman) (human epidemiological reports) rget organ: None. spite of being in wide dispersive use as an ingredient of various products for many years, two cases of acute intoxication re reported in which two adult women inadvertently ingested the substance (4g and 80g) on an empty stomach. After atment, the symptoms (e.g. severe epigastric cramping, nausea, vomiting, neurological disorders) complete recovered hin a few days. However, the case was considered to be stastically negligible and toxicologically insignificant; no ssification can be assigned to the substance. ference: OECD SIDS (2002).
	thylenebis(4-methyl-6-tert-butylphenol)
STOT-Single (Ta Tai (rai (rai of t	est species listed below) rget organs: None t) - Diarrhea was observed after a single oral administration with 5000 mg/kg bw of the substance. bbit) - No mortality or any clinical signs of toxicities were observed after a single dermal application with 10000 mg/kg bw he substance. However, the dose levels were both outside of the guidance value ranges. ference: ECHA (2011).
Potentia	I Health Effect(s): No further relevant information; classification is not possible.
	get Organ Toxicity - Repeated Exposure
	Butadiene, homopolymer, hydroxy-terminated
STOT-Repeated	(No data available)
3648-20-2 Diund	ecyl phthalate (DUP)
	Target: None (rat) (No systemic effect found after repeated oral doses) At 2.5% (> 2500 mg/bw/day; Diet period: 21 days) daily diet group, the substance caused a moderate proliferation of peroxisomes in livers of the rats. However, the dose level was out of the guidance range values. Reference: ECHA (2011).
128-37-0 2,6-di-t	ert-butyl-p-cresol
STOT-Repeated	(Rats and Mice) Target organs: Category 2 (Lung, Liver, and Thyroid gland) via (Oral+Dermal) (rat) [2-generation chronic feeding; up to 500 mg/kg bw/day) NOAEL (F1 males) = 25 mg/kg bw/day; decreased body weight, increased incidence of hepatocellular foci and nodules, consistently increased liver enzymes, and hyperactive thyroid were observed in F1 males starting with dose level of 100 mg/kg bw/day. (mouse) (Dermal; 145-867 (to males), 208-1245 (to females) mg/kg bw/day; four weeks) NOAEL < 200 mg/kg bw/day; congestion and enlargement of lung; histologically, degeneration and necrosis of alveolar epithelial cells were observed. Reference: ECHA (2012) and OECD SIDS (2002).
	thylenebis(4-methyl-6-tert-butylphenol)
STOT-Repeated	N/A (rat) -LOAEL(oral; male rats) = 42.3 mg/kg bw/day with effects on livers (increased absolute and relative liver weights) and testicular system (decreased absolute and relative testicle weights, atrophy of testicular tubules, spermatogenic arrest, and epididymis hypospermia). -LOAEL(oral; female rats) = 54.2 mg/kg bw/day with effects on livers (increased absolute and relative liver weights). However, the effects were considered as conclusive but not sufficient for the classification. Reference: ECHA (2011).
· Aspiration H	lazard
	Butadiene, homopolymer, hydroxy-terminated
	d (No data available)
	ecyl phthalate (DUP)
	d (No data available)
	ert-butyl-p-cresol
	d (No data available)
	thylenebis(4-methyl-6-tert-butylphenol)
	(No data available)
· Potentia	I Health Effect(s): No relevant information; classification is not possible.
	· ·

12 Ecological information
· Aquatic Environmental Toxicity
69102-90-5 1.3-Butadiene, homopolymer, hyd

	ene, homopolymer, hydroxy-terminated
Algae Toxicity	(No data available)
Crustacean Toxicity	(No data available)
Fish Toxicity	(No data available)
3648-20-2 Diundecyl p	
Algae Toxicity	3.3 mg/l (Pseudokirchneriella subcapitata) (NOEC (8 days; Maximum dose: 3.3 mg/l)) EC50 (72 hrs; OECD TG 201) = 3.3 m/l (Maximum test concentration)
Crustacean Toxicity	0.059 mg/l (Daphnia magna (water flea)) (NOEC (21 days; Maximum dose: 0.059 mg/l)) LC50 (48 hrs; EPA OTS 797.1300) > 0.022 mg/L
Fish Toxicity	0.3 mg/l (Oncorhynchus mykiss (Rainbow trout)) (NOEC(155 days); EPA OPPTS 850.1400; Max.: 0.3mg/l) LC50 (96 hrs; EPA-660/3-75-009) > 1.4 mg/L No death was observed at water solubility of the substance (1.0 mg/L at 25 °C), it was therefore not classified as hazardous to aquatic environment. Reference: ECHA (2011).
	(Contd. on page 9



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128-37-0 2,6-di-te	rt-butyl-p-cresol (Contd. of page
Algae Toxicity	> 0.4 ma/l (Scenedesmus subspicatus) (EC50 (72 brs): ELLMethod C3)
Crustoson Taulat	EC8 (72h) = 0.4 mg/l
Crustacean Toxicit	0.316 mg/l (NOEC (21 days); OECD TG`202) Based on the non-rapid degradability and the acute LC50 < 1 mg/l; the substance is classified as a Chronic
Fish Toxicity	aquatic hazard. > 0.57 mg/l (Brachydanio rerio (Zebra fish)) (LC0 (96 hrs); Directive 84/449/EEC C1) Reference: ECHA (2012).
119-47-1 2,2'-Met	nylenebis(4-methyl-6-tert-butylphenol)
Algae Toxicity (sta	
Crustacean Toxicit	NOEC (21 days; OECD TG 211) = 0.34 mg/L
Fish Toxicity	5 mg/l (Oryzias latipes (Rice fish)) (LC0 (96 hrs); OECD TG 203) No toxic symptoms or death occurred. Based on the poor water solubility (7E-6 g/L at 20 °C) and the non-rap degradability, the substance is classified as a Chronic-4 aquatic environmental hazard for safety reason. Reference: ECHA (2011).
	onmental Toxicity Assessment: No further relevant information; classification is not possible.
Degradability and	
Biodegradation	Itadiene, homopolymer, hydroxy-terminated (No data available)
Persistence	(Test species: n/a)
	The substance is not persistent.
Photodegradation	Reference: Canada DSL (2007). (No data available)
U U	(No data available)
3648-20-2 Diunde	cyl phthalate (DUP)
Biodegradation	readily biodeg. (Test species: n/a) (Biodegradation (28 days; OECD TG 301B)=69%) The substance is readily biodegradable. Reference: ECHA (2011).
Persistence	(Test species: n/a) (The substance is not persistent) Reference: Canada DSL (2007).
Photodegradation	2.91E-11 cm³/molecule-sec (OH radical) (Calculated by AOPWIN) Half-life (5E5 OH/cm³) = 13.25 hours Reference: ECHA (2011).
	stable (Test species: n/a) (Half-life (PH=7; 25 °C; HYDROWIN) = 7.7 yrs) Half-life (PH=8; 25 °C;Calculated by HYDROWIN) = 281.03 days
128-37-0 2,6-di-te	Reference: ECHA (2011).
Biodegradation	non-biodegrad. (Test species: n/a) (Standard test; Chemical conc. 50 ppm; 4 weeks) Biodegradation (Indirect analysis from BOD) = 4.5% Biodegradation (Direct analysis from GC) = 0.8% The substance is non-biodegradable. Reference: CHRIP (2011).
Persistence	(Test species: n/a) The substance is not persistent.
Photodegradation	Reference: Canada DSL (2007). 1.83E-11 cm³/molecule-sec (OH radical) (Estimated from AOPWIN, v1.90) Half-life (1.5 <u>E6</u> OH/cm³) = 7 hours
Stability in water	Reference: ECHA (2012). (Test species: n/a) Half-life (DT <u>50; 20 °C) = 4</u> - 8 days
110 17 1 2 2' Mot	Reference: ECHA (2012).
Biodegradation	nylenebis(4-methyl-6-tert-butylphenol) _[Test species: n/a) (OECD TG_301C; chemical conc. 100 mg/L; 4 weeks)
	Biodegradation (Direct from HPLC) = 1% Biodegradation (Indirect from BOD) = 0% The substance is non-biodegradable
<b>_</b> <i>· ·</i>	Reference: CHRIP (2011).
Persistence	(Test species: n/a) The substance is persistent. Reference: Canada DSL (2007).
-	4.1E-11 cm <sup>3</sup> /molecule-sec (OH radical) (Calculated by AOP) Half-life = 9.4 hours Reference: ECHA (2011).
Stability in water	(No data available)
Bioaccumulation	
69102-90-5 1,3-Bı	tadiene, homopolymer, hydroxy-terminated
The subs	available) tance is not bioaccumulative.
	e: Canada DSL (2007). available)
1.00 I (110 Uala	urununuj



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Safety Data Sheet acc. to OSHA HCS

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(Contd. of page 9) 3648-20-2 Diundecyl phthalate (DUP) LogPow 4.95 (Test species: n/a) (The substance is not bioaccumulative) 21.4 (Test species: n/a) (Calculated by BCFBAF or EPIWIN) Reference: ECHA (2011) and Canada DSL (2007). BČF ≥ 2.5E21 L/kg (Test species: n/a) LogKoc (Soli; OECD TG 121) = ca. 21.41 LogKoc (Sewage sludge; OECD TG 121) = ca. 23.21 Reference: ECHA (2011). Koc 128-37-0 2,6-di-tert-butyl-p-cresol LogPow 5.1 (Test species: n/a) (Shake-flask method) Reference: CHRIP (2011) and ECHA (2012). (Cyprinus carpio) BCF (8 weeks; 500 ppb) = 220 - 2800 BCF (8 weeks; 50 ppb) = 230 - 2500 BCF (8 weeks; 50 ppb) = 330 - 1800 The substance is moderately bioaccumulative. BCF (Test species: n/a) (Estimated by QSAR calculation) Koc Koc = 8183 L/kg (log Kow based estimation), Koc = 14750 L/kg (MCI based estimation). Therefore, adsorption potential of the substance is not high. According to a Mackay Level I model calculation, the main target compartment for the substance is air (79-87 %), followed by soil (6.1-10.2 %) and sediment (5.7-9.5 %). 

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

 LogPow
 6.25 (Test species: n/a) (OECD TG 107; 20 °C)

 Reference: ECHA (2011).

 (Cyprinus carpio) BCF (Chemical conc. 2  $\mu$ g/L; 60 days) = 710 BCF (Chemical conc. 0.2  $\mu$ g/L; 60 days) = 490 The substance is low bioaccumulative in aquatic environment. Reference: CHRIP (2011). BCF 150000 L/kg (Test species: n/a) (Calculated from LogPow of 6.25 and LogKoc = 0.81 X LogPow + 0.1) Reference: ECHA (2011). Koc 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.

Not regulated for transport; not applicable.	
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Not regulated for transport; not applicable.	
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Not regulated for transport; not applicable.	
Not applicable.	
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#### Page 10/12



Safety Data Sheet acc. to OSHA HCS

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Page 11/12

IRegulation Lists           SRAR Superfund Amendments and Reauthorization Act of 1986)           Section 320 (Extremely Azardous Substances)           None of the ingredents is listed           Section 311 31 (Toxics Relases Inventory (TRI) reporting)           None of the ingredents is listed           Section 311 312 (Hazardous Chemical Inventory Reporting)           Image: Comparison of Section 311 312 (Hazardous Chemical Inventory Reporting)           Image: Comparison of Section 311 312 (Hazardous Chemical Inventory Reporting)           Image: Comparison of Section 311 312 (Hazardous Chemical Inventory Reporting)           Image: Comparison of Section 311 312 (Hazardous Chemical Inventory Reporting)           Image: Comparison of Section 311 312 (Hazardous Chemical Inventory Reporting)           Image: Comparison of Section 311 312 (Hazardous Chemical Inventory Reporting)           Image: Comparison of Section 311 312 (Hazardous Pressure Hazardous Chemical Inventory Toxicity International Internatinternatinterefore International International Internatinternatint		(Contd. of page
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None of the ingredients is listed.	SARA (Superfund Amendments and Reauthorization Act of 1986)	
Section 313 (Toxics Release Inventory (TRI) reporting)     Section 311/312 (Hazardous Chemical Inventory Reporting)     Section 311/312 (Hazardous Chemical Inventory Reporting)     II9-47-1[22:Helthylenebis(4-methyl-6-tert-butylphenoi)     IA [1-23     A common the section of the secti		
None of the ingredients is listed.         [A] 1-23           Section 311/312 (Hazardous Chemical Inventory Reporting)         [A] 1-23           I 19-47-11 2.2*Methylenebis(-Henebix)-Event-bulylphenol)         [A] 1-23           A Acute Ingelith Iszard         [A] 1-23           C. Chronic Heghth Hazard         [A] 1-23           A Acute Ingelith Iszard         [A] 1-23           C. Chronic Heghth Hazard         [A] 1-23           G. S. Subdem Releved         [A] 1-23           [B] Ingredients is listed.         [A] 1-23           [Chemicals Known to Cause Cancer         [A] 1-23           [None of the ingredients is listed.         [A] 1-23           [A] 1-23         [A] 1-23           [A] 10 of the ingredients is listed.         [A] 1-23           [A] 10 of the ingredients is listed.         [A] 1-23           [A] 10 of the ingredients is listed.         [A] 1-23           [A] 10 of the ingredients is listed.         [A] 1-23           [A] 10 of the ingredients is listed.         [A] 1-23 <td></td> <td></td>		
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Hazard Abbreviations for SARA 311/312     A - Actle Health Heard     C - Chronic Health Heard     C - Chronic Health Heard     R - Free Hozard     R - Free Hozar		
A - Acute Health Hazard G - Chronic Health Hazard F - Fre Hazard S - Sudden Release of Pressure Hazard · 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 · Chemicals Known to Cause Reproductive Toxicity for Females · Chemicals Known to Cause Reproductive Toxicity for Females · Chemicals Known to Cause Reproductive Toxicity for Males None of the ingredients is listed. · Chemicals Known to Cause Reproductive Toxicity for Males None of the ingredients is listed. · Chemicals Known to Cause Reproductive Toxicity for Males None of the ingredients is listed. · Chemicals Known to Cause Reproductive Toxicity None Males None of the ingredients is listed. · Chemicals Known to Cause Developmental Toxicity None of the ingredients is listed. · Carcinogenic Categories · EFA (Environmental Protection Agency) None of the ingredients is listed. · HARC (International Agency for Research on Cancer) · HARC (International Agency for Research on Cancer) · HARC (International Agency for Research on Cancer) · VITP (National Toxicology Program) None of the ingredients is listed. · TLV (Threshold Limit Value Established by ACGH) · NOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. · International Regulation Lists · Canadian Domestic Substance Listings: · Canadian Ingredient is listed. · International Ingredient is listed. · International Regulation Lists · Canadian Ingredient is listed. · Japanese Existing and New Chemical Substances: · All ingredients is listed. · Japanese Existing Chemical Substance List: All ingredients is listed. · Japanese Existing Chemical Substances: · All ingredients is listed. · Korean Existing Chemical Substances: All ingredients is listed. · Rorean Existing Chemical Substances: All ingredients is listed. · Korean Existing Chemical Substances: All ingredie	119-47-1   2,2'-Methylenebis(4-methyl-6-tert-butylphenol)	A 1-2.5
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F Fire Hazard         R - Reactive Hazard         S - Sudden Release of Pressure Hazard         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.         • Chemicals Known to Cause Developmental Toxicity         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.         • URC (International Agency for Research on Cancer)         128-370 [2.6-di-tert-butyl-p-cresol         • TVC (Threshold Limit Value Established by ACGIH)         128-370 [2.6-di-tert-butyl-p-cresol         • TVC (Threshold Limit Value Established by ACGIH)         128-370 [2.6-di-tert-butyl-p-cresol         • TVC (Threshold Limit Value Established by ACGIH)		
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128-37-0       2,6-di-tert-butyl-p-cresol         NTP (National Toxicology Program)         None of the ingredients is listed.         'TV (Threshold Limit Value Established by ACGIH)         128-37-0       2,6-di-tert-butyl-p-cresol         'T7-58-7       Dibutytin dilaurate         '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 ingredient Disclosure list (limit 1%)         128-37-0       2,6-di-tert-butyl-p-cresol         'Canadian Ingredient Disclosure list (limit 1%)         128-37-0       2,6-di-tert-butyl-p-cresol         119-47-1       2,2-di-tert-butyl-p-cresol		
• NTP (National Toxicology Program)         None of the ingredients is listed.         • TLV (Threshold Limit Value Established by ACGIH)         128-37-0 [2,6-di-tert-butyl-p-cresol         77-58-7 Dibutyttin dilaurate         • 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%)         None of the ingredients is listed.         • Canadian Ingredient Disclosure list (limit 1%)         None of the ingredients are listed.         • Canadian Ingredient Disclosure list (limit 1%)         128-37-0 [2,6-di-tert-butyl-p-cresol         119-47-1 [2,2'-Methylenebis(4-methyl-6-tert-butylphenol)         • Chinese Chemical Inventory of Existing Chemical Substances:         All ingredients are listed.         • Japanese Existing and New Chemical Substance List:         All ingredients are listed.         • Korean Existing Chemical Inventory:         All ingredients are listed.         • Korean Existing Chemical Inventory:         All ingredients are listed.         • REA	128-37-0 2,6-di-tert-butyl-p-cresol	
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128-37-0       2.6-di-tert-butyl-p-cresol       77-58-7         77-58-7       Dibutytin dilaurate       7         NOSH-Ca (National Institute for Occupational Safety and Health)       7         None of the ingredients is listed.       7         International Regulation Lists       7         Canadian Domestic Substance Listings:       7         All ingredients are listed.       7         Canadian Ingredient Disclosure list (limit 0.1%)       7         None of the ingredient Disclosure list (limit 1%)       7         128-37-0       2.6-di-tert-butyl-p-cresol         119-47-1       2.2'-Methylenebis(4-methyl-6-tert-butylphenol)         Chinese Chemical Inventory of Existing Chemical Substances:       7         All ingredients are listed.       7         Japanese Existing and New Chemical Substance List:       7         All ingredients are listed.       7         Screan Existing Chemical Inventory:       7         All ingredients are listed.       7         Screan Existing Chemical Inventory:       7         All ingredients are listed.       7         Screan Existing Chemical Inventory:       7         All ingredients are listed.       7         Screan Existing Chemical Inventory:       7         All ingredients		
77-58-7       Dibutytin dilaurate       //         NIOSH-Ca (National Institute for Occupational Safety and Health)       ////////////////////////////////////		
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%) 128-37-0 2.6-di-tert-butyl-p-cresol 119-47-1 2.2-Methylenebis(4-methyl-6-tert-butylphenol)     Chinese Chemical Inventory of Existing Chemical Substances:     All ingredients are listed.     Korean Existing and New Chemical Substance List:     All ingredients are listed.     Korean Existing Chemical Inventory:     None of the ingredients is listed.     Korean Existing Chemical Substances:     Nore of the ingredients are listed.     Korean Existing Chemical Inventory:     None of the ingredients are listed.     Korean Existing Chemical Inventory:     None of the ingredients are listed.     Korean Existing Chemical Substances:     None of the ingredients is listed.     Kean Existing Chemical Substances:     None of the ingredients is listed.     Kean Existing Chemical Substances:     None of the ingredients is listed.     Kean Existing Chemical Inventory:     None of the ingredients is listed.     Kean Existence of Very High Concern (SVHC) List:     None of the ingredients is listed.     Restriction of Hazardous Substances Directive (RoHS) list:		
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128-37-0       2,6-di-tert-butyl-p-cresol         119-47-1       2,2'-Methylenebis(4-methyl-6-tert-butylphenol)         Chinese Chemical Inventory of Existing Chemical Substances:         All ingredients are listed.       Japanese Existing and New Chemical Substance List:         All ingredients are listed.       Korean Existing Chemical Inventory:         All ingredients are listed.       Korean Existing Chemical Inventory:         All ingredients are listed.       Korean Existing Chemical Inventory:         All ingredients are listed.       Korean Existing Chemical Substances:         All ingredients are listed.       Keropean Pre-registered substances:         All ingredients are listed.       KEACh - Substances of Very High Concern (SVHC) List:         None of the ingredients is listed.       Restriction of Hazardous Substances Directive (RoHS) list:		
119-47-1       2,2'-Methylenebis(4-methyl-6-tert-butylphenol)         Chinese Chemical Inventory of Existing Chemical Substances:         All ingredients are listed.         Japanese Existing and New Chemical Substance List:         All ingredients are listed.         Korean Existing Chemical Inventory:         All ingredients are listed.         European Pre-registered substances:         All ingredients are listed.         European Pre-registered substances:         All ingredients are listed.         • European Substances of Very High Concern (SVHC) List:         None of the ingredients is listed.         • Restriction of Hazardous Substances Directive (RoHS) list:		
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· Restriction of Hazardous Substances Directive (RoHS) list:		

### **16 Other information**

This product and technical data related to this product are export controlled by the United States (US) Government. Exportation/international shipments of this product are subject to licensing by the US Government. Export, reexport or other diversion, either in the original form or after being incorporated in an intermediate process into other end-items, is



Safety Data Sheet acc. to OSHA HCS

Revision Date 11/03/2015

ae	e Name: UR3001HP2 Black B
S	Contd. of page (Contd. of page)
P E	Government. If you plan to export this material in some form, please contact Total Petrochemicals & Refining USA, Inc. for more information. Export Control Classification Number (ECCN): 1C111
S	This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features hall not establish a legally valid contractual relationship.
Ċ	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
	BUE' 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 Information Platform
	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
	HSDB: US NLM TOXINE I 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
	ICSC: International Chemical Safety Cards IMDG: International Maritime Dangerous Goods: the principal international rules for International Carriage of Dangerous Goods by 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
	NICSH: US National Institute of Occupational Salety 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 Internat
	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
	SARA: US Superiund Amenoments and Reautinorization Act SIDS: OECD existing chemicals Screening Information Data Sets SVHC: EU ECHA Substance of Very High Concern
	SARA: US Superium Amenoments and Reautinorization 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 Act (SCAPA) of US Department of Energy (DOE) TOXLINE: US NLM bibliographic database search system TSCA: US Toxic Substance Control Act
	TSCA: US Toxic Substance Control Act • Date of preparation / last revision 11/03/2015 / 2

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