

## Safety Data Sheet acc. to OSHA HCS

Print Date 06/05/2015

Revision Date 06/05/2015

### · Product Identifier

· **Trade Name:** UR3010 BLACK 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  
1-800-388-8605  
www.resinlab.com

· **Information Department:** Product Safety Department: msds@resinlab.com

· **Emergency Telephone Number:**

North America - Chemtrec: 1-800-424-9300 (24 hours)  
International - Chemtrec: 01-703-527-3887 (24 hours)

## 2 Hazard(s) identification

### · Hazard Classification



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

Eye Dam. 2B H320 Causes eye irritation.

### · Label Elements

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

· **Pictogram(s)**



GHS08

· **Signal Word** Warning

· **Hazard statements**

Causes eye irritation.

Suspected of damaging fertility or the unborn child.

· **Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Obtain special instructions before use.

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.

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

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### Hazard Rating System

#### NFPA System

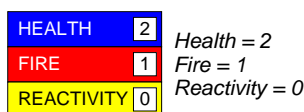
##### NFPA Ratings (scale 0 - 4)



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

#### HMIS System

##### HMIS Ratings (scale 0 - 4)



#### Other hazards

##### Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

### Chemical Characterization: Mixtures

#### Composition/Information on Ingredients

CAS: 8001-79-4 EINECS: 232-293-8 RTECS: FI 4100000	Castor oil Eye Irrit. 2A, H319	80-90%
CAS: 3077-13-2 EINECS: 221-360-7	1,1'-phenyliminodipropan-2-ol Eye Irrit. 2A, H319	5-<10%
CAS: 1333-86-4 EINECS: 215-609-9 RTECS: FF5800000	Carbon black	1-2.5%
CAS: 119-47-1 EINECS: 204-327-1	2,2'-Methylenebis(4-methyl-6-tert-butylphenol) Repr. 2, H361 Aquatic Chronic 4, H413	0.1-<1%
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-<0.1%

#### Classification System:

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

## 4 First-aid measures

### Description of First Aid Measures

#### 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. Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.

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Seek immediate medical advice.

**· After Skin Contact**

Gently wash contaminated skin with water and soap and rinse thoroughly.  
Seek medical treatment in case of complaints.

**· After Eye Contact**

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

**· After Swallowing**

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

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

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

skin tests

respiratory system tests

Check section 11 Toxicological Information for further relevant information.

**· Additional Information**

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

### 5 Fire-fighting measures

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

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

In case of fire, suitable extinguishing agents are:

Alcohol resistant foam.

Dry chemical or fire-extinguishing powder.

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

Water spray or water fog.

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

Isolate fire and deny unnecessary entry.

Eliminate all ignition sources if safe to do so.

Do not extinguish fire unless flow can be stopped.

Fight fire remotely due to the risk of explosion.

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

Fight fire from protected location or safe distance.

Contain fire water runoff if possible to prevent environmental pollution.

**· Special Hazards Arising in Fire**

Will not burn unless preheated.

In case of fire, following can be released:

Various hydrocarbons

ketones

ethers

alcohols

pyrolysis products

Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)

Nitrogen oxides

**· 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).

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As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

- **Additional Information** Be Caution! Finely dispersed substance may form explosive mixtures in air.

### 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**

For large spills: remove with vacuum trucks or pump to storage/salvage vessels.  
For small spills: absorb spilled chemical with liquid-binding materials.  
Dispose contaminated chemicals as waste according to Section 13.

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

### 7 Handling and storage

- **Handling**

- **Precautions for Safe Handling**

Obtain special instruction before use; do not handle until all safety precautions have been read and understood.  
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during handling.  
Ensure good ventilation and/or exhaustion at workplace.  
Keep away from incompatible material(s).  
Avoid any release into the environment.  
Keep container tightly closed when not in use if product is volatile so as to generate hazardous atmosphere.  
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.  
Dust can combine with air to form an explosive mixture.

- **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**

**8001-79-4 Castor oil**

TEEL-1 Short-term value: 125 mg/m<sup>3</sup>

TEEL-2 Short-term value: 500 mg/m<sup>3</sup>

TEEL-3 Short-term value: 500 mg/m<sup>3</sup>

**1333-86-4 Carbon black**

PEL Long-term value: 3.5 mg/m<sup>3</sup>

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REL	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction
<b>77-58-7 Dibutyltin dilaurate</b>	
PEL	Long-term value: 0.1 mg/m <sup>3</sup> as Sn
REL	Long-term value: 0.1 mg/m <sup>3</sup> as Sn, Skin
TLV	Short-term value: 0.2 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup> as Sn; Skin

- **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.

Keep food, drink or feed away from working area.

Contaminated work clothing is not allowed out of workplace.

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

- **Personal Protective Equipment (PPE)**

- **Breathing Equipment**

Caution! Improper use of respirators is dangerous.

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

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

- **Hand Protection**



Protective gloves

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

Suggested glove type(s):

Nitrile Gloves

Butyl Rubber Gloves

- **Eye Protection**



Safety glasses

- **Body Protection** No relevant information.

- **Additional Information**

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:** Black

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· <b>Odor:</b>	Faint
· <b>Odor Threshold:</b>	Not determined.
· <b>PH-Value:</b>	Not determined.
· <b>Change in Condition:</b>	
· <b>Melting Point:</b>	Not determined.
· <b>Boiling Point:</b>	Not determined.
· <b>Flash Point:</b>	> 163 °C (> 325 °F)
· <b>Decomposition Temperature:</b>	Not determined.
· <b>Flammability:</b>	Not determined.
· <b>Explosion:</b>	Not determined.
· <b>Explosion Limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor Pressure at 20 °C (68 °F):</b>	< 1 hPa (Estimated)
· <b>Vapor Density:</b>	not determined
· <b>Density at 25 °C (77 °F):</b>	0.97 g/cm <sup>3</sup> (8.095 lbs/gal)
· <b>Solubility in or Miscibility with</b>	
· <b>Water:</b>	Partially miscible.
· <b>Viscosity:</b>	
· <b>Dynamic at 20 °C (68 °F):</b>	1000 mPas
· <b>Kinematic:</b>	Not determined.
· <b>Additional Information</b>	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)** May generate flammable hydrogen (H<sub>2</sub>) in contact with alkali metals and hydrides.
- **Incompatible Material(s)**  
 Amines, Mercaptans  
 Oxidizing agents, Isocyanates  
 Acids  
 Bases (Alkalis)  
 Oxidizing acids
- **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.

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## 11 Toxicological information

### Acute Toxicity

#### Oral

**8001-79-4 Castor oil**

 Oral LD50 (Human) (Probable oral lethal dose=5000-15000 mg/kg)  
 Reference: NLM HSDB (2011).

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

 Oral LD50 3800 mg/kg (rat)  
 Reference: Dow (M)SDS (2004).

**1333-86-4 Carbon black**

 Oral LD50 > 10000 mg/kg (rat) (Toxicity not anticipated under normal conditions)  
 No mortality or clinical signs of toxicity were observed after an oral administration with 10000 mg/kg bw of the substance to rats.  
 Reference: OECD SIDS (2006).

#### Potential Health Effect(s):

 While not a classified acute oral hazard, the product may cause the following symptom(s):  
 diarrhea  
 abnormal pain, headache, nausea, vomiting, drowsiness

#### Dermal

**8001-79-4 Castor oil**

Dermal LD50 (Test species: n/a) (Toxicity not expected based on acute oral data)

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

 Dermal LD50 > 2000 mg/kg (rabbit)  
 Reference: Dow (M)SDS (2004).

**1333-86-4 Carbon black**

 Dermal LD50 > 3000 mg/kg (Test species: n/a) (Toxicity not anticipated under normal conditions)  
 Reference: ChemID (2010).

#### Potential Health Effect(s): Not a classified acute dermal hazard.

#### Inhalative

**8001-79-4 Castor oil**

Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected based on acute oral data)

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

Inhalative LC50/4 h (No data available)

**1333-86-4 Carbon black**

 Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected based on acute oral data)  
 Due to wetted form of the substance, inhalative effects from dust form can be seen as negligible. Meanwhile, based on the acute oral toxicity test, it was expected that toxicity to mammals via inhalation of the substance was not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute inhalation hazard as a wetted form.

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

#### Skin Corrosion or Irritation

**8001-79-4 Castor oil**

 Corrosion/Irritation slightly irrit. (Human) (After 0.05g neat substance to males)  
 0.05 g neat substance applied to skin of the back of 50 adult male volunteers for 48 hours induced irritating scores ranging from negative to bullous. The substance was classified as mildly irritating to human skin (Category 3) for safety reason.  
 Reference: NLM HSDB (2011).

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

Corrosion/Irritation (No data available)

**1333-86-4 Carbon black**

 Corrosion/Irritation not irritating (rabbit) (None showed any signs of skin irritation)  
 Reference: OECD SID (2006).

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**Potential Health Effect(s):**

Causes mild skin irritation.  
 In contact with skin, may cause:  
 redness and pain

**Eye Serious Damage or Irritation**
**8001-79-4 Castor oil**

**Damage/Irritation** slightly irrit. (Human) (mild discomfort and minor epithelial changes found)  
 Daily application of the substance to eyes of 9 patients for 15 days resulted in mild and transient discomfort and minor epithelial changes. The substance was therefore classified as mildly irritating to human eyes (Category 2B).  
 Reference: NLM HSDB (2011).

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

**Damage/Irritation** (No data available)

**1333-86-4 Carbon black**

**Damage/Irritation** slightly irrit. (rabbit) (discoloration of lids and slight conjunctiva)  
 No irritating effect was observed in any of test animals at any observation.  
 (human)  
 The substance particles may cause discoloration of lids and slight conjunctiva to human eyes.  
 For safety reason, the substance was classified as mildly irritating to eyes (Category 2B).  
 Reference: OECD SIDS (2006).

**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**
**8001-79-4 Castor oil**

<b>Sensitization</b>	<b>Skin</b>	sensitizing (Human) (clear hyperchromasia observed after 10 days) Undiluted substance which was daily applied to test fields delineated on the right thigh of three males (22 to 31 years old) less than 30 seconds for 10 days resulted in macroscopic and microscopic skin changes including clear hyperchromasia, an increase in the number of cells in the basal cell layer, slight widening of the granular cell layer. For safety reason, the substance was classified as a skin sensitizer to humans (Category 1). Reference: NLM HSDB (2011).
	<b>Respiratory</b>	(No data available)

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

<b>Sensitization</b>	<b>Skin</b>	(No data available)
	<b>Respiratory</b>	(No data available)

**1333-86-4 Carbon black**

<b>Sensitization</b>	<b>Skin</b>	not sensitizing (Human) (There were no allergies reported in humans) Reference: OECD SIDS (2006).
	<b>Respiratory</b>	(No data available)

**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**
**8001-79-4 Castor oil**

**Mutagenicity** negative (salmonella typhimurium) (In Vitro (AMEs test; TA 97, 98, 1535 strains))  
 Reference: CCRIS (2011).

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

**Mutagenicity** (No data available)

**1333-86-4 Carbon black**

**Mutagenicity** negative (salmonella typhimurium) (In Vitro (Ames test))  
 In Vitro (Sister chromatid exchange assay; Chinese Hamster) - negative with and without metabolic activation.  
 In Vitro (Mouse Lymphoma assay) - negative with and without metabolic activation.  
 Reference: OECD SIDS (2006).

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

**Carcinogenicity**

**8001-79-4 Castor oil**

Carcinogenicity: negative (mouse) (no tumor found after 20 week dermal doses)  
After dermal semiweekly application of the substance for 20 weeks, no tumor was observed.  
Reference: NLM HSDB.

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

Carcinogenicity: negative (Test species: n/a) (not listed as a Carcinogen by NTP, IARC or OSHA)

**1333-86-4 Carbon black**

Carcinogenicity: positive (rat)  
Application: Inhalation  
Exposure time: 2 years  
Target Organ: Lungs  
Source: Dow Corning Q3-6611 SDS  
This substance is inextricably bound within a product and will not contribute to an inhalation hazard.  
(Human)  
This substance is inextricably bound within a product and will not contribute to an inhalation hazard.  
IARC Group 2B Possibly carcinogenic to humans. Based on inhalation studies with animals.

**Potential Health Effect(s):** Not a known Carcinogen.

**Reproductive Toxicity**

**8001-79-4 Castor oil**

Reproductive Toxi.: negative (Human) (No statistically reproductive toxicity observed)  
A 33-year-old pregnant female (at week 40 of gestation) appeared cardiopulmonary arrest due to amniotic fluid embolism within 60 min of ingestion of the substance. However, classification was not possible due to statistical insignificance of the case.  
(rats and mice)  
There was little or no evidence of any reproductive toxicity in the treated animals observed after repeated oral administration of 10% solution of the substance for 13 weeks.  
Reference: NLM HSDB (2011).

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

Reproductive Toxi.: (No data available)

**1333-86-4 Carbon black**

Reproductive Toxi.: negative (Test species: n/a) (Incapable of reaching reproductive organs)  
It was very unlikely that the substance particles can reach the reproductive organs under In Vivo conditions, nor were capable of skin penetration the reproductive system. Thus, the substance was unlikely to pose a reproductive toxicity.  
Reference: OECD SIDS (2006).

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

**Specific Target Organ Toxicity - Single Exposure**

**8001-79-4 Castor oil**

STOT-Single: (Human) (Respiratory tract irritation via Inhalation)  
The substance caused respiratory tract irritation based on human evidence.  
Reference: NLM HSDB (2011).

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

STOT-Single: (No data available)

**1333-86-4 Carbon black**

STOT-Single: Target: None (rat) (No effect after oral with 10000 mg/kg)  
Target organs: None  
No clinical sign of toxicity was observed after a single oral administration with 10000 mg/kg of the substance.  
Reference: OECD SIDS (2006).

**Potential Health Effect(s):** May cause respiratory irritation.

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

**8001-79-4 Castor oil**

STOT-Repeated Target: None (Human) (After repeated inhalative exposure)  
 13 out of 28 employees (employment period varied from 2 months to 20 years; both males and females; 25 smokers) of a company involving importing, preparing, and distributing plant products of the substance exhibited symptoms including rhinitis, conjunctivitis, asthma, itch, and/or urticaria. However, there was no evidence that the symptoms were the substance or their smoking relevant. Thus, it was not possible to make a classification without further information.  
 Reference: NLM HSDB (2011).

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

STOT-Repeated (No data available)

**1333-86-4 Carbon black**

STOT-Repeated Target: None (Rats and Mice) (No effect after repeated oral with 2050mg/kg/day)

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

#### · Aspiration Hazard

**8001-79-4 Castor oil**

Aspiration Hazard (No data available)

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

Aspiration Hazard (No data available)

**1333-86-4 Carbon black**

Aspiration Hazard (No data available)

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

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

## 12 Ecological information

#### · Aquatic Environmental Toxicity

**8001-79-4 Castor oil**

Algae Toxicity (No data available)

Crustacean Toxicity (No data available)

Fish Toxicity (No data available)

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

Algae Toxicity (No data available)

Crustacean Toxicity (No data available)

Fish Toxicity (No data available)

**1333-86-4 Carbon black**

 Algae Toxicity >1000 mg/l (*Selenastrum capricornum*) (LC50 (96 hrs, suspensions))

 Crustacean Toxicity 5600 - 10000 mg/l (*Daphnia magna* (water flea)) (EC50 (24 hrs), OECD TG 202)

 Fish Toxicity >1000 mg/l (*Brachydanio rerio* (Zebra fish)) (LC50 (96 hrs, suspensions))

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

#### · Degradability and Stability

**8001-79-4 Castor oil**

Biodegradation (No data available)

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

 Photodegradation 2.54E-10 cm<sup>3</sup>/molecule-sec (OH radical)  
 Reference: NLM HSDB (2011).

Stability in water (No data available)

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

Biodegradation (No data available)

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

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Photodegradation	(No data available)
Stability in water	(No data available)

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Biodegradation	non-biodegrad. (Test species: n/a) (Due to being an inorganic elemental carbon)
Persistence	persistent (Test species: n/a)
Photodegradation	(Test species: n/a) (Photolysis is not expected)
Stability in water	stable (Test species: n/a) (Due to being an inorganic elemental carbon)

**· Bioaccumulation and Distribution**

**8001-79-4 Castor oil**

BCF	(Test species: n/a) (The substance is not bioaccumulative) Reference: Canada DSL (2007).
Koc	(No data available)
LogPow	(No data available)

**3077-13-2 1,1'-phenyliminodipropan-2-ol**

BCF	(Test species: n/a) (The substance is not bioaccumulative) Reference: Canada DSL (2007).
Koc	(No data available)
LogPow	(No data available)

**1333-86-4 Carbon black**

BCF	(Test species: n/a) (The substance is not bioaccumulative) Reference: OECD SIDS (2006).
Koc	(Test species: n/a) (Primarily partitions to soil, or sediment)
LogPow	(Not applicable) (Due to being an inorganic elemental carbon)

**· Degradability and Bioaccumulation Assessment:** No further relevant information; assessment is not possible.

**· 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**

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· DOT, ADR, ADN, IMDG, IATA</li> </ul>	Not regulated for transport; not applicable.
<ul style="list-style-type: none"> <li>· <b>UN Proper Shipping Name</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	Not regulated for transport; not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· DOT, ADR, ADN, IMDG, IATA</li> <li>· Class</li> </ul>	Not regulated for transport; not applicable.
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> </ul>	Not regulated for transport; not applicable.

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· <b>DOT, ADR, IMDG, IATA</b>	
· <b>Environmental Hazards:</b>	Not applicable.
· <b>Special Precautions:</b>	Not applicable.
· <b>Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional Information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	-

### 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)**

1333-86-4	Carbon black	A, C	1-2.5%
119-47-1	2,2'-Methylenebis(4-methyl-6-tert-butylphenol)	A	0.1-<1%

**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)**

8001-79-4	Castor oil
3077-13-2	1,1'-phenyliminodipropan-2-ol
1333-86-4	Carbon black
119-47-1	2,2'-Methylenebis(4-methyl-6-tert-butylphenol)
1318-02-1	Zeolites
3648-20-2	Diundecyl phthalate (DUP)
77-58-7	Dibutyltin dilaurate
63148-62-9	Polydimethylsiloxane
1843-03-4	Phenol, 4,4',4"-(1-methyl-1-propanyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-

**Proposition 65**
**Chemicals Known to Cause Cancer**

1333-86-4 Carbon black

**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.

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**· Carcinogenic Categories**
**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

1318-02-1	Zeolites	3
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**· NTP (National Toxicology Program)**

None of the ingredients is listed.

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

1333-86-4	Carbon black	A4
77-58-7	Dibutyltin dilaurate	A4

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

None of the ingredients is listed.

**· International Regulation Lists**
**· Canadian Domestic Substance Listings:**

8001-79-4	Castor oil
3077-13-2	1,1'-phenyliminodipropan-2-ol
1333-86-4	Carbon black
119-47-1	2,2'-Methylenebis(4-methyl-6-tert-butylphenol)
1318-02-1	Zeolites
3648-20-2	Diundecyl phthalate (DUP)
77-58-7	Dibutyltin dilaurate
63148-62-9	Polydimethylsiloxane
1843-03-4	Phenol, 4,4',4''-(1-mrthyl-1-propanyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-

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

None of the ingredients is listed.

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

8001-79-4	Castor oil
1333-86-4	Carbon black

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

8001-79-4	Castor oil
3077-13-2	1,1'-phenyliminodipropan-2-ol
1333-86-4	Carbon black
119-47-1	2,2'-Methylenebis(4-methyl-6-tert-butylphenol)
1318-02-1	Zeolites
3648-20-2	Diundecyl phthalate (DUP)
77-58-7	Dibutyltin dilaurate
63148-62-9	Polydimethylsiloxane
1843-03-4	Phenol, 4,4',4''-(1-mrthyl-1-propanyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-

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

3077-13-2	1,1'-phenyliminodipropan-2-ol
1333-86-4	Carbon black
119-47-1	2,2'-Methylenebis(4-methyl-6-tert-butylphenol)
1318-02-1	Zeolites
3648-20-2	Diundecyl phthalate (DUP)
77-58-7	Dibutyltin dilaurate
63148-62-9	Polydimethylsiloxane
1843-03-4	Phenol, 4,4',4''-(1-mrthyl-1-propanyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-

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**· Korean Existing Chemical Inventory:**

8001-79-4	Castor oil
3077-13-2	1,1'-phenyliminodipropan-2-ol
1333-86-4	Carbon black
119-47-1	2,2'-Methylenebis(4-methyl-6-tert-butylphenol)
1318-02-1	Zeolites
3648-20-2	Diundecyl phthalate (DUP)
77-58-7	Dibutyltin dilaurate
63148-62-9	Polydimethylsiloxane
1843-03-4	Phenol, 4,4',4''-(1-methyl-1-propanyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-

**· European Pre-registered substances:**

8001-79-4	Castor oil
3077-13-2	1,1'-phenyliminodipropan-2-ol
1333-86-4	Carbon black
119-47-1	2,2'-Methylenebis(4-methyl-6-tert-butylphenol)
1318-02-1	Zeolites
3648-20-2	Diundecyl phthalate (DUP)
77-58-7	Dibutyltin dilaurate
63148-62-9	Polydimethylsiloxane
1843-03-4	Phenol, 4,4',4''-(1-methyl-1-propanyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-

**· 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  
 ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DOT: US Department of Transportation  
 HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System  
 IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)  
 ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)  
 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)  
 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  
 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  
 SARA: US Superfund Amendments and Reauthorization Act  
 TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)  
 TSCA: US Toxic Substance Control Act

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ACToR: US EPA Aggregated Computational Toxicology Resource  
BCF: Bioconcentration Factor  
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  
DSL: Canada Domestic Substance List  
ECHA: European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH  
ESIS: European Chemical Substances Information System  
HSDB: US NLM TOXNET Hazardous Substances Databank  
HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database  
IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)  
ICSC: International Chemical Safety Cards  
IUCLID: EU REACH International Uniform Chemical Information Database  
Koc: Partition coefficient, soil Organic Carbon to water  
NITE: National Institute of Technology and Evaluation, Japan  
NLM TOXNET: US National Library of Medicine Toxicology Data Network  
OECD: Organisation for Economic Co-operation and Development  
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  
SIDS: OECD existing chemicals Screening Information Data Sets  
SVHC: EU ECHA Substance of Very High Concern  
TOXLINE: US NLM bibliographic database search system  
· **Date of preparation / last revision** 06/05/2015 / 3

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