

Print Date 09/21/2016 Revision Date 09/21/2016

Product Identifier
 Trade Name: UR6001 Black A
 Application of the Substance or Mixture: Polyols

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

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\*\*Manufacturer or Supplier:
Resinlab, LLC

N109 W13300 Ellsworth Drive
Germantown, WI 53022
1-877-259-1669

www.resinlab.com

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

\*\*Teachange Number\*\*

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

#### 2 Hazard(s) identification

· Hazard Classification

Eye Irrit. 2A H319 Causes serious eye irritation.

· Label Elements

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

Pictogram(s)



Signal Word Warning

Hazard statements
H319 Causes serious eye irritation.

Precautionary statements

Wear eye protection / face protection.
Wash thoroughly after handling.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

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



Health = 1Fire = 1 Reactivity = 0

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

HMIS System HMIS Ratings (scale 0 - 4)



Health = 1Fire = 1Reactivity = 0

· Other hazards

ner nazarus

· 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 25-30% Eye Irrit. 2A, H319 tris(2-chlorisopropyl)-phosphate Acute Tox. 4, H302; Acute Tox. 4, H312 Aquatic Acute 3, H402; Aquatic Chronic 3, H412 CAS: 13674-84-5 20-<25% CAS: 1318-02-1 EINECS: 215-283-8 **Zeolites** 2.5-5% Eye Irrit. 2A, H319; STOT SE 3, H335 CAS: 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica 1-2.5% EC number: 614-122-2 CAS: 1333-86-4 EINECS: 215-609-9 RTECS: FF5800000 Carbon black 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%

(Contd. on page 2)





Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

(Contd. of page 1)

· Classification System:

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

Additional Information:

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

#### 4 First-aid measures

#### Description of First Aid Measures

General Information

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

After Inhalation

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

After Skin Contact

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

After Eye Contact

Immediately bathe eyes for 15 minutes under running water. Immediately remove contact lenses if present. Continue rinsing. Seek medical treatment in case of complaints.

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.

· Information for Doctor

Indication of any Immediate Medical Attention and Special Treatment Needed Check section 11 Toxicological Information for further relevant 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.

Cárbon dioxide (CO<sub>2</sub>).
Water spray or water fog.
Unsuitable Extinguishing Agent(s) No relevant information.

Firefighting Procedures

Eliminate and deny unnecessary entry.

Eliminate all ignition sources if safe to do so.

Do not extinguish fire unless flow can be stopped.

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:

In case of fire, following sail so release.

In case of fire, following sail so release.

Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires. Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)

Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) dust, a serious respiratory irritant, may be formed during fires.

Phosphorus oxide (P₂O₅)

Silicon oxide (SiO₂)

• 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

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

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

#### 6 Accidental release measures

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.

(Contd. on page 3)





Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

(Contd. of page 2)

Cleaning Up Methods
Ensure adequate ventilation.
Eliminate all ignition sources.
Keep unauthorized personnel away.
For large spills:
Shut off source of leak if safe to do so.
Dike and contain

Shut off source of leak it safe to do so.

Dike and contain.

Remove with vacuum trucks or pump to storage/salvage vessels.

Absorb residues with liquid-binding materials.

Avoid confined spaces, such as sewers, because of the possibility of an explosion.

For small spills:

Ventilate and wash area after clean-up is complete.

Collect spills in suitable and properly labeled containers.

Do not use solvents unless following safe handling practices and within the recommended exposure guidelines.

Dispose contaminated chemicals as waste according to Section 13.

· Additional Information No further relevant information.

### 7 Handling and storage

- Handling

Precautions for Safe Handling

Keep away from incompatible material(s).
Avoid any release into the environment.
For industrial or professional use only
Observe all the personal protection requirements in Section 8.
Information about Protection Against Explosions and Fires
Will post burn unless probested.

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

orage
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

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
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

8001-79-4 Castor oil

TEEL-1 Short-term value: 125 mg/m<sup>3</sup> Short-term value: 500 mg/m3 TEEL-2 Short-term value: 500 mg/m³ TFFI -3

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

OSHA PEL | Short-term value: 15 mg/m³ US ACGIH | Short-term value: 10 mg/m³

1333-86-4 Carbon black

PEL Long-term value: 3.5 mg/m³ REL

Long-term value: 3.5\* mg/m³ \*0.1 in presence of PAHs;See Pocket Guide Apps.A+C

Long-term value: 3\* mg/m³ \*inhalable fraction TI V

77-58-7 Dibutyltin dilaurate

Long-term value: 0.1 mg/m³ PEL as Sn REL Long-term value: 0.1 mg/m<sup>3</sup> as Šn, Skin

TLV Short-term value: 0.2 mg/m3 Long-term value: 0.1 mg/m³ 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
Avoid any contact with eye.
Do not eat, drink or smoke during work.
Avoid contact with eyes.

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

(Contd. on page 4)



Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

(Contd. of page 3)

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.

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
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:

Liauid Black

Color: Odor: Characteristic Odor Threshold: Not determined.

· PH-Value:

Not determined.

Not determined. Not determined. >120 °C (>248 °F)

· Decomposition Temperature: Not determined.

Flammability: Explosion:

Not determined. Not determined.

**Explosion Limits:** 

Lower.

Not determined. Not determined.

· Upper:

Not determined.

not determined

Vapor Pressure: Vapor Density: Density at 20 °C (68 °F): Solubility in or Miscibility with

1.38 g/cm³ (11.516 lbs/gal)

· Water:

Not miscible or difficult to mix.

Viscosity: Dynamic: Kinematic:

Not determined. Not determined.

· Additional Information

No further relevant information.

#### 10 Stability and reactivity

- · Physical Hazard(s) Not a regulated reactive or physical hazard under GHS.
- · Hazardous Reactivity and Chemical Stability Stable under normal conditions of use, storage and temperatures.
- Thermal Decomposition and Conditions to be Avoided

Keep away from incompatible material(s).
Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.

- · Possibility of Other Hazardous Reaction(s) May generate flammable hydrogen (H₂) in contact with alkali metals and hydrides.
- · Incompatible Material(s)

Water

trimethylolpropane

Oxidizing agents 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.





Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

(Contd. of page 4)

Acut		cicity	
	Oral		
2164	5-51-	2 Alumin	um hydroxide
Oral	LD50	(rat) (L No mor Referer	D0(OECD TG 401)>5000mg/kg: no death occurred) tality was observed after a single oral administration with 5000 mg/kg of the substance. nce: ECHA (2011) and IUCLID Dataset (2000).
8001	-79-4	Castor o	
			n) (Probable oral lethal dose=5000-15000 mg/kg) nce: NLM HSDB (2011).
1367	4-84-	5 tris(2-c	hlorisopropyl)-phosphate
Oral	LD50	3600 m	g/kg (rat)
2526	5-71-	8 Diprop	ylene glycol
Oral	LD50	) > 5000 No dea	mg/kg (rat) (EPA OPP81-1) th or abnormal effect found at the end of the 1-day observation period. nce: ECHA (2011).
1318	-02-1	Zeolites	
			mg/kg (rat) (OECD TG 401) 0 mg/kg (mouse) (Henkel-method) nce: IUCLID Dataset (2000).
6776	2-90-	7 Siloxar	nes and Silicones, di-Me, reaction products with silica
		) >5000 i	mg/kg (rat) (test method not specified) noe: Cabot (M)SDS (2012).
	· Po		ealth Effect(s):
	dia	arrhea	• •
	ab	normal p	ain, headache, nausea, vomiting, drowsiness nhalative effect(s) for further information
_			malauve enect(s) for further information
	Derma		una budancida
			um hydroxide
			st species: n/a) (Toxicity not expected based on acute oral data)
		Castor c	
			st species: n/a) (Toxicity not expected based on acute oral data)
2526	5-71-	8 Diprop	ylene glycol
		Refe	10 mg/kg (rabbit) (EPA OPP81-2) leath or abnormal effect found at the end of the 14-day observation period. rrence: ECHA (2011).
		Zeolites	
Derm	nal Li	D50 (rab No n Refe	bit) (LD0 ≥ 2000 mg/kg; Henkel-method) nortality or any signs of toxicity observed; the substance was not classified as hazardous via dermal application. erence: IUCLID Dataset (2000).
		D50 (Tes Base not a	nes and Silicones, di-Me, reaction products with silica st species: n/a) (Toxicity not expected based on acute oral data) ed on the acute oral toxicity test, it was expected that toxicity to mammals via dermal application of the substance valuations are substance valuations. It was expected that toxicity to mammals via dermal application of the substance valuations are substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as a substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as an according to the substance was not classified as a substance was not classifi
	· <b>Po</b> No Se	tential H	ealth Effect(s): elevant information available; classification is not possible. nhalative effect(s) for further information.
	nhala	tive	
2164	5-51-	2 Alumin	um hydroxide
Inhala	ative	LC50/4 F	n (Test species: n/a) (Toxicity not expected as a wetted form) Due to wetted form, inhalative effects of the substance can be seen as negligible.
			Due to wetted form, inhalative effects of the substance can be seen as negligible.
8001·	-79-4	Castor of	il en
			Test species: n/a) (Toxicity not expected based on acute oral data)
			ylene glycol
Inhala	ative	LC50/4 ł	n (rat) (LC0 (EPA OPP81-3) > 2.34 mg/l) No death or abnormal effect found at the end of the 2-week observation period up to the maximum tested dose le of 2.34 mg/L/4 hours. Reference: ECHA (2011).
1318	-02-1	Zeolites	
		LC50/4 F	
6776	2-90-	7 Siloxar	nes and Silicones. di-Me. reaction products with silica
Inhala	ative	LC50/4 ř	(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, ba on the acute oral toxicity test, it was expected that toxicity to mammals via inhalation of the substance was no significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an ac
			inhalation hazard.
	· Po	otential H	Initialation riazard. lealth Effect(s): ossible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s):



Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

(Contd. of page 5) Skin Corrosion or Irritation 21645-51-2 Aluminum hydroxide Corrosion/Irritation not irritating (rabbit) (OECD TG 404; semiocclusive; 4hr-contact; undiluted) 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 Reference: NLM HSDB (2011). 25265-71-8 Dipropylene glycol (rabbit) (EPA OPP81-5)
Erythema: 0 (time point: 24+48+72 hours; mean score of all treated animals)
Edema: 0 (time point: 24+48+72 hours; mean score of all treated animals)
Reference: ECHA (2011).
(rabbit) (Draize test) Corrosion/Irritation (rabbit) (Datage (est) The substance was slightly irritating to rabbit skin (500 mg; 24 hours; occluded). Reference: OECD SIDS (2001). 1318-02-1 Zeolites Corrosion/Irritation not irritating (rabbit) (OECD TG 404) not irritating (human) (Patch test) The substance was not a dermal irritant. Reference: IUCLID Dataset (2000). 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Corrosion/Irritation Non-irritating (Test species: n/a) (Primary irritation index=0)
mildly irritating (rabbit) (Read across from CAS 63148-62-9)
No test detail available; for safety reasons, the substance was classified as mildly irritating (Category 3) to rabbit skin. Reference: HSNO CCID (2010) · Potential Health Effect(s): No further relevant information; classification is not possible · Eye Serious Damage or Irritation 21645-51-2 Aluminum hydroxide Damage/Irritation | not irritating (rabbit) No eye irritation to rabbit eyes OECD Test Guideline 405 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). 25265-71-8 Dipropylene glycol (rabbit) (EPA OPP81-4) Cornea, Iris, Conjunctivae and Chemosis: 0 (time point: 24+48+72 hours; mean score of all treated animals). Reference: ECHA (2011). Damage/Irritation (rabbit) (Draize test)
The substance is slightly irritating to rabbit eyes (0.1 mL neat substance; 24 hrs; semi-occluded)
Reference: OECD SIDS (2001). 1318-02-1 Zeolites (rabbit) Damage/Irritation (Paper). (Praize test and Directive 84/449/EEC B5): Slightly irritating.
Instillation of 10 mg neat substance in rabbit eyes caused a foreign-body reaction due to mechanical action of the Substance. -(OECD TG 405): Not irritating.
There were no alterations in cornea or iris, but slight hyperemia in conjunctiva observed. For safety reason, the substance was classified as a slight eye irritant (Category 2B). Reference: IUCLID Dataset (2000). 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Damage/Irritation | Slightly irrit. (Human) (Read across from CAS 63148-62-9) non-irritating (Primary irritation index=0) Transient ocular irritation was observed in humans, rabbits, dogs, and monkeys after injection of the substance to their eye bodies. However, those effects can be seen as negligible based on regular use of the substance. When applying lower viscosity substance-oil mixture to human and rabbit eyes, there was no cornea injury, but a delay of healing of the existed corneal erosion observed. For safety reasons, the substance was classified as a slight eye irritant (Category 2B). Reference: ACTOR (2011) and Cabot (M)SDS (2012). Potential Health Effect(s): Causes serious eye irritation. In contact with eye, may cause: redness and pain Respiratory or Skin Sensitization 21645-51-2 Aluminum hydroxide not sensitizing (guinea pig) (OECD TG 406; intradermal and epicutaneous) Skin sensitizing reaction was not observed; the substance was not classified as a skin sensitizer.Reference: ECHA (2011). Sensitization Skin (No data available)
Due to wetted form, inhalative effects of the substance can be seen as negligible. Respiratory 8001-79-4 Castor oil 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). Sensitization Skin



Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

	Respiratory	(Contd. of pag (No data available)
25265-71-8 D		
Sensitization		(guinea pig) (EPA OPP81-6)
Coriolazation		Number with positive reactions: 0 (0.5 mL neat substance; Time point: 24+48+72 hrs) The substance is not sensitizing to pig skin. Reference: ECHA (2011).
	Respiratory	(No data available)
1318-02-1 Ze		
Sensitization	i	not sensitizing (guinea pig) (Buehler test and maximization test) not sensitizing (human) (Buehler test) The substance did not induce any sensitizing reactions in either of the tests; the substance was not classified a dermal sensitizer. Reference: IUCLID Dataset (2000).
		(Test species: n/a) Due to the wetted form, inhalative effects of the substance can be seen as negligible.
67762-90-7 S		d Silicones. di-Me, reaction products with silica
Sensitization		(No data available) Primary irritation index=0 Non-irritating. Cabot MSDS (2012) (No data available)
. Poter	ntial Health F	Effect(s): No relevant information for respiratory sensitization; classification is not possible.
· OSHA	A-Ca (Occup	ational Safety & Health Administration)
None of the in		
	II Mutagenici	
21645-51-2 A		
Mutagenicity	negative (rat)	
		hocyte/Result: negative/Mutagenicity (micronucleus test) Rat - male/Result: negative
8001-79-4 Ca		Land Harding in Market and TART Co. 4505 (4505)
Mutagenicity	negative (sail	lmonella typhimurium) (In Vitro (AMEs test; TA 97, 98, 1535 strains)) CCRIS (2011).
25265-71-8 D		
Mutagenicity	(Test specie	s listed below) cterial reverse mutation assay; S. typhimurium) - negative with and without metabolic activation ammalian cell gene mutation assay; mouse lymphoma L5178Y cells; OECD TG 476) - negative with and with
1318-02-1 <b>Z</b> ec	In Vivo (mic Reference: E	cronucleus assay; mouse; oral with up to 2000 mg/kg bw; OECD TG 474) - No genotoxicity effects found. ECHA (2011).
		tvnhimurium)
matagornony	In Vitro (AME Reference: Il	typhimurium) ES tests; OECD TG 471) - negative with and without metabolic activation UCLID Dataset (2000).
6//62-90-/ 5	iioxanes and	d Silicones, di-Me, reaction products with silica
	Reference: C	inese Hamster) (In Vitro (AMES Test)) inese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Cabot (M)SDS (2012).
		Effect(s): No further relevant information; classification is not possible.
· Carcinog		
21645-51-2 A		
Carcinogenici	ty negative (I	Human) ance was not regulated as a carcinogen by IARC, NTP, or OSHA. Reference: ECHA (2011).
8001-79-4 Ca		ance was not regulated as a calcinogen by initio, NTT, or OOTH. Note thee. Early.
	ty negative (i After derm	mouse) (no tumor found after 20 week dermal doses) nal semiweekly application of the substance for 20 weeks, no tumor was observed. e: NLM HSDB.
25265-71-8 D		įlycol
Carcinogenici	NOAEL (o NOAEL (o	oral; carcinogenicity, male rats) = 3040 mg/kg bw/day oral; carcinogenicity, female rats) = 2330 mg/kg bw/day astic lesion found at the highest dose tested; not classified as a carcinogen. e: ECHA (2011).
1318-02-1 Ze	olites	
Carcinogenici	of relevant	
	inhalation Reference	ormal use and as a wetted form, carcinogenicity studies of the substance via intraperitoneal injection (i.p.) a routes were not included.  5: IUCLID Dataset (2000).
07700 00 7 0	iloxanes and	d Silicones, di-Me, reaction products with silica
67762-90-7 S		cies: n/a) (Not listed by IARC, NTP, OSHA or ACGIH)
Carcinogenici		Thock(s): Not a known Caroinagan
Carcinogenici • <b>Poter</b>	ntial Health E	Effect(s): Not a known Carcinogen.
Carcinogenici Poter Reproduc	ntial Health E ctive Toxicity	y
Carcinogenici Poter Reproduc 21645-51-2 A	ntial Health E ctive Toxicity Iuminum hyd Toxi. negativ	y '



Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

8001-79-4 Castor oil	
A G ii	legative (Human) (No statistically reproductive toxicity observed)  \( \frac{33-year-old pregnant female (at week 40 of gestation) appeared cardiopulmonary arrest due to amniotic flowbolism within 60 min of ingestion of the substance. However, classification was not possible due to statistic insignificance of the case.  \( \text{rats} \) and \( \text{mice} \) if the case of any correction to toxicity in the treated animals observed after repeated of the case.
i e F	There was little or no evidence of any reproductive toxicity in the treated animals observed after repeated of Idministration of 10% solution of the substance for 13 weeks. Reference: NLM HSDB (2011).
25265-71-8 Dipropyl	
Reproductive Toxi.	(rat) (Read-across from 57-55-6; oral) IOAEL (P-generation; male/female) = 10100 mg/kg bw/day IOAEL (P-generation; male/female) = 10100 mg/kg bw/day Io effects reported at the highest dose tested. (rabbit) (OECD TG 414; oral) IOAEL (developmental and maternal toxicity) ≥ 1200 mg/kg/day Io effects reported at the highest dose tested.
F	Reference: ECHA (2011).
1318-02-1 Zeolites	
Reproductive Toxi. ( r. / r	(rat) legative (Oral with up to 1600  mg/kg daily on days 6-15 of pregnancy) IOAEL (Maternal toxicity and Teratogenicity) ≥ 1600 mg/kg. There were no adverse effects observed on dar Imbryos, or fetuses at any dose tested. Reference: IUCLID Dataset (2000).
67762-90-7 Siloxane	es and Silicones, di-Me, reaction products with silica
Reproductive Toxi.	
	Organ Toxicity - Single Exposure
21645-51-2 Aluminu	
STOT-Single	Target: None (rat) (No mortality or any adverse effect observed)  No mortality or any adverse effect was observed after a single oral administration of 2000 mg/kg to rats.Referent ECHA (2011).
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).
25265-71-8 Dipropyl	
STOT-Single	(Test species listed below) (EPA OPP81-1,2,&3) Target organs: None Rat (Oral with 5000 mg/kg): no abnormal effects were found at the end of the 1-day observation period. Rabbit (Dermal with 5010 mg/kg): no abnormal effects were found at the end of the 14-day observation period. Rat (Inhalative with 2.34 mg/L/4 H): no abnormal effects were found at the end of the 2-week observation period Reference: ECHA (2011).
1318-02-1 Zeolites	[Note of the Leaf In L
STOT-Single	(rabbit) Target organ: None A single dermal application of 2000 mg/kg of the substance caused no signs of local or systemic effects. Reference: IUCLID Dataset (2000).
67762-90-7 Siloxane	es and Silicones, di-Me, reaction products with silica
	ic) (No data available)
	alth Effect(s): No further relevant information; classification is not possible.
	Organ Toxicity - Repeated Exposure
STOT-Repeated Tar	in nydroxide get: None (rat) (OECD TG 407; neat substance; 28 days; oral) AEL (male rats) = 302 mg/kg bw/day: No mortality or any adverse effect was observed at daily doses up to 302 mg ly weight to rats. Reference: ECHA (2011).
8001-79-4 Castor oil	y magnitio rate. Natoronou. Editit (Editi).
STOT-Repeated Tar 13 cor rhir sub Rei	get: None (Human) (After repeated inhalative exposure) out of 28 employees (employment period varied from 2 months to 20 years; both males and females; 25 smokers) of npany involving importing, preparing, and distributing plant products of the substance exhibited symptoms includ nitis, conjunctivitis, asthma, itch, and/or urticaria. However, there was no evidence that the symptoms were stance or their smoking relevant. Thus, it was not possible to make a classification without further information. ference: NLM HSDB (2011).
25265-71-8 Dipropy	ene glycol
and	on the system of the control of the
1318-02-1 Zeolites	
NO	ģet organs: None EAL (oral; 7 days; males and females) > 5000 mg/kg bw/day EAL (oral; 90 days) = 5000 ppm; there were no differences observed between the test and control groups at 50 n dose level.
ppr The Rei	e substance was therefore not classified as a target organ hazard upon repeated exposure. Ference: IUCLID Dataset (2000).
ppr The Rei	ference: IUCLID Dataset (2000). es and Silicones, di-Me, reaction products with silica



Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

Stability in water

(No data available)

(Contd. of page 8) · Aspiration Hazard 21645-51-2 Aluminum hydroxide Aspiration Hazard (No data available) 8001-79-4 Castor oil Aspiration Hazard (No data available) 25265-71-8 Dipropylene glycol Aspiration Hazard (No data available) 1318-02-1 Zeolites Aspiration Hazard (No data available) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Aspiration Hazard (No data available)

<sup>·</sup> Additional Information No further relevant information.

Additional Information	tion No further relevant information.	
Ecological info	rmation	
Aquatic Environme		
21645-51-2 Alumini		
Algae Toxicity	> 100 mg/l (Selenastrum capricornum) (NOEC (72 hrs); OECD TG 201)	
	(static) > 100 mg/l (Daphnia magna (water flea)) (NOEC (48 hrs); OECD TG 202)	
Fish Toxicity	> 100 mg/l (Brown trout (Salmo trutta or Sea trout)) (NOEC (96 hrs); OECD TG 203) Reference: IUCLID Dataset (2000).	
8001-79-4 Castor o		
Algae Toxicity	(No data available)	
Crustacean Toxicity	(No data available)	
Fish Toxicity	(No data available)	
25265-71-8 Dipropy		
Algae Toxicity	> 100 mg/l (pesmodesmus subspicatus) (EC50 (72 hr); OECD TG 201)	
Orustasaan Taxiaitu	1545 mg/L (EC50 (96 hr); growth rate; Calculated by ECOSAR; green algae)	
Crustacean Toxicity	(Static) > 100 mg/l (Daprilla magria (Water Heal) (EC30 (46 fils), OECD 1G 202) 8407 mg/l (1 C50 (48 hr): Calculated by ECOSAP; daphnids)	
	(static) > 100 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs); OECD TG 202) 8497 mg/L (LC50 (48 hr); Calculated by ECOSAR; daphnids) 694 mg/L (ChV (16 days); Calculated by ECOSAR; daphnids)	
Fish Toxicity	> 1000 mg/l (Oryzias latipes (Rice fish)) (LC50(96 hr); Read-across from 24800-44-0; OECD 203) 20889 mg/L (LC50 (96 hr); Calculated by ECOSAR; fresh water fish) 1878 mg/L (ChV (30 days); Calculated by ECOSAR; fresh water fish) Due to the acute LC50>100 mg/L, the substance is not classified as an environmental hazard.	
	20889 mg/L (LC50 (96 hr); Calculated by ECOSAR; fresh water fish)	
	1878 mg/L (CN (30 days); Calculated by ECOSAR; fresh water fish)	
	Due to the acute LC30>100 mg/L, the substance is not classified as an environmental hazard. Reference: ECHA (2011).	
1318-02-1 Zeolites	[	
Algae Toxicity	(Chlorella vulgaris)	
	EC50 (96 hrs, biomass) = 560 - 1800 mg/L NOEC (18 days; growth rate) = 1 mg/L	
	NOEO (10 udys, grown rate) = 1 mg/L   Scenedesmus subspiratus)	
	(Scenedesmus subspicatus) EC50 (96 hrs; OECD TG 201) = 18 mg/L	
Crustacean Toxicity	(Daphnia magna (water flea))	
·	(Daphnia magna (water flea)) EC50 (24 hrs; OECD TG 202) = 1808 mg/L EC50 (48 hrs) = 1000 - 1800 mg/L	
	EC50 (48 hrs) = 1000 - 1800 mg/L   NOEC (21 days; reproduction rate) = 10 mg/L	
Fish Toxicity	1900 2200 mg/l (Pacalitis retirulate) = 10 Hg/L	
risii roxicity	1800 mg/l (Brachydanio rerio (Zebra fish)) (1 C50 (96 hrs): OFCD TG 203)	
	1800 - 3200 mg/l (Poecilia reticulata) (LC50 (96 hrs) and LC50 (28 days)) 1800 mg/l (Brachydanio rerio (Zebra fish)) (LC50 (96 hrs); OECD TG 203) When considering all of the evidence, the substance is not classified as an aquatic environmental hazard.	
	Reference: IUCLID Dataset (2000).	
	es and Silicones, di-Me, reaction products with silica	
Algae Toxicity	> 10000 mg/l (Scenedesmus subspicatus) (ErC50 (24 hrs), OECD 201)	
Crustacean Toxicity	> 1000 mg/l (Daphnia magna (water flea)) (EC50 (24 hrs), OECD 202)	
Fish Toxicity	> 10000 mg/l (Brachydanio rerio (Zebra fish)) (LC50 (96 hrs), OECD 203) Reference: Cabot (M)SDS (2012).	
. Aquatic Enviro	nmental Toxicity Assessment: No further relevant information; classification is not possible.	
Degradability and	· · · · · · · · · · · · · · · · · · ·	
21645-51-2 Alumini		
	on-biodegrad. (Test species: n/a) (Due to being persistent)	
Persistence (	Test species: n/a) (The substance is persistent)	
Į F	Reference: Canada DSL (2007).	
Photodegradation (	,	
	(No data available)	
8001-79-4 Castor o		
	(No data available)	
Persistence (	(Test species: n/a) (The substance is not persistent) Reference: Canada DSL (2007).	
riolouegraualion 2	.54E-10 cm³/molecule-sec (OH radical) Reference: NLM HSDB (2011).	
	(No data available)	

(Contd. on page 10)

<sup>·</sup> Potential Health Effect(s): No relevant information, classification is not possible.



Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

	propylene glycol (Contd. of p
Biodegradation	Inon-hindegrad (Test species: n/a) (OECD TG 302C: 4 weeks: Chemical conc 30 npm)
Diodegradation	n non-biodegrad. (Test species: n/a) (OECD TG 302C; 4 weeks; Chemical conc.30 ppm) Biodegradation (Direct from TOC, GC) = 16% and 9% Biodegradation (Indirect from BOD) = 1%
	Biodegradation (Indirect from BOD) = 1%
	The substance is not biodegradable.
	Reference: CHRIP (2011).
Persistence	(Test species: n/a)
1 01010101100	The substance is not persistent
	(Test species: n/a) The substance is not persistent. Reference: Canada DSL (2007).
Photodegrada	tion 9 97F-11 cm³/molecule-sec (OH radical) (Calculated by OSAR; at 25 °C)
Tholodograda	tion 9.97E-11 cm³/molecule-sec (OH radical) (Calculated by QSAR; at 25 °C) Half-life (12-hr_day; 1.5E6 OH/cm³) = 0.107 days = 1.287 hours
	Reference: ECHA (2011).
Stability in wat	
Clabinty in wat	There is no hydrolyzable groups in the substance; thus, it is expected to be stable in water.
1318-02-1 Zec	
Biodegradation	
Diodogiadalioi	As an insoluble inorganic metal compound, biodegradation of the substance is not expected.
Persistence	(Test species: n/a)
i craiateriec	As an insoluble inorganic metal compound, the substance is expected to be persistent in the environment.
Photodegrada	
. Holou <del>c</del> yraua	Trest species. In a)
Stability in wat	
Stability III Wat	Hydrolysis has a half-life of about 1 - 2 months depending on pH values (lower pH values accelerate the hydrolysis)
	Trydroysis has a hail-file of about 1 - 2 months depending on pri values (lower pri values accelerate the hydrolysis) Reference: OECD SIAM (2006).
67762-00-7 Si	loxanes and Silicones, di-Me, reaction products with silica
Biodegradation	
Persistence	(Test species: n/a) (The substance is not persistent) Reference: Canada DSL (2007).
Dia eta ala aura ala	
	tion (No data available)
Stability in wat	er   (No data available)
Bioaccumula	tion and Distribution
21645-51-2 Al	uminum hydroxide
	data available)
Refe	t species: n/a) (The substance is not bioaccumulative) rence: Canada DSL (2007).
	data available)
8001-79-4 Cas	
	data available)
BCF (Tes	t species: n/a) (The substance is not bioaccumulative) rence: Canada DSL (2007).
	data available)
	propylene glycol
LogPow -1.48	6 (Test species: n/a)
	rehce: OECD SIDS (2001).
BCF (Cyp	prinus carpio)
7~7	(Chemical concentration: 3 mg/L; 6 weeks) = 0.3 - 1.4
RCF	(Chemical concentration: 3 mg/L; 6 weeks) = 0.3 - 1.4 (Chemical concentration: 0.3 mg/L; 6 weeks) < 4.6
BCF BCF	substance is non or low biogeoumulative in aquatic environment
The s	substance is non or low bioaccumulative in aquatic environment.
Refe	rence: CHRIP (2011).
Refe	rence: CHRIP (2011).
Fine S Refe Koc ≤ 1.6 Refe	rence: CHRIP (2011). L/kg (Test species: n/a) rence: ECHA (2011).
The S   Refe   Koc   < 1.6   Refe   1318-02-1 Zec	rence: CHRIP (2011). L/kg (Test species: n/a) rence: ECHA (2011). Ilites
The S   Refe   Koc   < 1.6   Refe   1318-02-1 Zec	rence: CHRIP (2011). L/kg (Test species: n/a) rence: ECHA (2011).
Ine s   Refe   < 1.6   Refe   1318-02-1 Zec   LogPow (No   BCF (No	rence: CHRIP (2011). L/kg (Test species: n/a) rence: ECHA (2011).  lites data available) data available)
Ine s   Refe   < 1.6   Refe   1318-02-1 Zec   LogPow (No   BCF (No	rence: CHRIP (2011). L/kg (Test species: n/a) rence: ECHA (2011).  lites data available) data available)
Ine s   Refe   < 1.6   Refe   1318-02-1 Zec   LogPow (No   BCF (No	rence: CHRIP (2011).  L/kg (Test species: n/a) rence: ECHA (2011).  Ilites  data available)
Koc	rence: CHRIP (2011).  L/kg (Test species: n/a) rence: ECHA (2011).  Dites  data available)  data available) substance is not bioaccumulative. rence: OECD SIAM (2006).
Koc Ines Koc < 1.6 Refe. 2.1.6 Refe. 1318-02-1 Zec LogPow (No BCF (No Refe. Koc (No	rence: CHRIP (2011).  L/kg (Test species: n/a) rence: ECHA (2011).  Sites  data available) data available) substance is not bioaccumulative. rence: OECD SIAM (2006). data available)
Ines   Refe   < 1.6   Refe   1318-02-1 Zec   LogPow   (No   BCF   (No   The s   Refe   Koc   (No   67762-90-7 Si	rence: CHRIP (2011).  L/kg (Test species: n/a) rence: ECHA (2011).  Ilites  data available)  data available) substance is not bioaccumulative. rence: OECD SIAM (2006).  data available)  data available)
Koc   Ines   Koc   <1.6   Refe.   1318-02-1 Zec   LogPow   (No   Hos   Refe.   Koc   (No   67762-90-7 Si   LogPow   (No	rence: CHRIP (2011). L/kg (Test species: n/a) rence: ECHA (2011). slites data available) data available) substance is not bioaccumulative. rence: OECD SIAM (2006). data available) loxanes and Silicones, di-Me, reaction products with silica data available)
Koc   Ines   Koc   <1.6   Refe.   1318-02-1 Zec   LogPow   (No   Hos   Refe.   Koc   (No   67762-90-7 Si   LogPow   (No	rence: CHRIP (2011). L/kg (Test species: n/a) rence: ECHA (2011). slites data available) data available) substance is not bioaccumulative. rence: OECD SIAM (2006). data available) loxanes and Silicones, di-Me, reaction products with silica data available)
Ines   Refe   < 1.6   Refe   1318-02-1 Zec   LogPow   (No   The s   Refe   (No   67762-90-7 Si   LogPow   (No   BCF   (No   Refe	rence: CHRIP (2011).  L/kg (Test species: n/a) rence: ECHA (2011).  Dites  data available)  data available)  substance is not bioaccumulative. rence: OECD SIAM (2006).  data available)  loxanes and Silicones, di-Me, reaction products with silica data available)  data available)  data available)  data available) (The substance is not bioaccumulative) rence: Canada DSL CCR (2011).
Ines   Refer   < 1.6   Refer   < 1.6   Refer   (No   BCF   (No   67762-90-7 Si   LogPow   (No   BCF   (No   BCF   (No   Refer   Koc   (No	rence: CHRIP (2011). L/kg (Test species: n/a) rence: ECHA (2011). slites data available) data available) substance is not bioaccumulative. rence: OECD SIAM (2006). data available) loxanes and Silicones, di-Me, reaction products with silica data available)

### 13 Disposal considerations

- Hazardous Waste List
   Description: Not regulated as a hazardous waste for disposal.

Waste Treatment Recommendation:
Generation of waste should be avoided or minimized wherever possible.
Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.
Dispose of contents/containers in accordance with local, regional, national, and international regulations.

(Contd. on page 11)

(Contd. on page 11) US



Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

(Contd. of page 10)

None of the ingredients is listed.

Unused and Uncontaminated Packagings
 Recommendation Dispose of according to your local waste regulations.

UN-Number DOT, ADR, ADN, IMDG, IATA	Not Regulated	
UN Proper Shipping Name · DOT, ADN, IMDG, IATA	Not Regulated	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not Regulated	
Packing group · DOT, ADR, IMDG, IATA	Not Regulated	
Environmental Hazards:	Not applicable.	
Special Precautions:	Not applicable.	
Transport in Bulk according to Annex II of MARPOL73/78 and the  Not applicable.		
UN "Model Regulation":	Not Regulated	

UN "Model Regulation":	Not Regulated	
on moder regulation .	Not Nogalated	
Regulatory information		
USA Regulation Lists · SARA (Superfund Amendments and F	Reauthorization Act of 1986)	
Section 302 (Extremely Hazardous		
None of the ingredients is listed.	·	
· Section 313 (Toxics Release Inver	ntory (TRI) reporting)	
None of the ingredients is listed.		
· Section 311/312 (Hazardous Chemical	Inventory Reporting)	
1333-86-4 Carbon black		A, C 0.1
· Hazard Abbreviations for SARA 3	11/312	
A - Acute Health Hazard	17312	
C - Chronic Health Hazard F - Fire Hazard		
г - гіге наzard R - Reactive Hazard		
S - Sudden Release of Pressure Ha	zard	
· TSCA (Toxic Substances Control Act)		
21645-51-2 Aluminum hydroxide		
8001-79-4 Castor oil		
13674-84-5 tris(2-chlorisopropyl)-phosphate		
25265-71-8 Dipropylene glycol		
67762-90-7 Siloxanes and Silicones, di-Me, rea	ction products with silica	
1333-86-4 Carbon black 77-58-7 Dibutyltin dilaurate		
Proposition 65 Chemicals Known to Cause Canc		
1333-86-4 Carbon black	71	
	eductive Taxisity for Famales	
<ul> <li>Chemicals Known to Cause Repro None of the ingredients is listed.</li> </ul>	ductive Toxicity for Females	
	dusting Taxisity for Malos	
<ul> <li>Chemicals Known to Cause Repro None of the ingredients is listed.</li> </ul>	ductive Toxicity for Males	
<u> </u>	annontal Taviaits	
<ul> <li>Chemicals Known to Cause Development</li> <li>None of the ingredients is listed.</li> </ul>	ортептан гохисту	
Carcinogenic Categories		
EPA (Environmental Protection Ag	gency)	
None of the ingredients is listed.		
IARC (International Agency for Re	search on Cancer)	
1318-02-1 Zeolites		
1333-86-4 Carbon black		
NTP (National Toxicology Program	n)	
None of the ingredients is listed.		
· TLV (Threshold Limit Value Estab	lished by ACGIH)	
1333-86-4 Carbon black		
77-58-7 Dibutyltin dilaurate		



Print Date 09/21/2016 Revision Date 09/21/2016

Trade Name: UR6001 Black A

for 6 a rese a 6		(Contd. of page 1
	ional Regulation Lists	
	adian Domestic Substance Listings:	
21645-51-2	Aluminum hydroxide	
8001-79-4	Castor oil	
	tris(2-chlorisopropyl)-phosphate	
25265-71-8	Dipropylene glycol	
1318-02-1		
	Siloxanes and Silicones, di-Me, reaction products with silica	
	Carbon black	
	DibutyItin dilaurate	
	adian Ingredient Disclosure list (limit 0.1%)	
	ingredients is listed.	
· Cana	adian Ingredient Disclosure list (limit 1%)	
8001-79-4		
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	
	Chinese Chemical Inventory of Existing Chemical Substances:	
	Aluminum hydroxide	
8001-79-4		
	tris(2-chlorisopropyl)-phosphate	
25265-71-8	Dipropylene glycol	
1318-02-1		
67762 00 7	Siloxanes and Silicones, di-Me, reaction products with silica	
1232-86-4	Carbon black	
	Dibutyltin dilaurate	
	Japanese Existing and New Chemical Substance List:	
21645-51-2	Aluminum hydroxide	
	tris(2-chlorisopropyl)-phosphate	
	Dipropylene glycol	
1318-02-1	Zeolites	
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	
	Carbon black	
	Dibutyltin dilaurate	
	Korean Existing Chemical Inventory:	
	Aluminum hydroxide	
8001-79-4	Castor oil	
13674-84-5	tris(2-chlorisopropyl)-phosphate	
25265-71-8	Dipropylene glycol	
1318-02-1		
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	
	Carbon black	
77-58-7	Dibutyltin dilaurate	
· I	European Pre-registered substances:	
	Aluminum hydroxide	
8001-79-4		
	tris(2-chlorisopropyl)-phosphate	
	Dipropylene glycol	
1318-02-1		
	Siloxanes and Silicones, di-Me, reaction products with silica	
	Carbon black	
	Dibutyltin dilaurate	
	REACh - Substances of Very High Concern (SVHC) List:	
	ingredients is listed.	
	Restriction of Hazardous Substances Directive (RoHS) list:	
None of the I	ingredients is listed.	

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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

Abbreviations and acronyms:
ACGIH: American Conference of Governmental Industrial Hygienists
ACTOR: US EPA Aggregated Computational Toxicology Resource
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
BCF: Bioconcentration Factor
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System





Revision Date 09/21/2016 Print Date 09/21/2016

Trade Name: UR6001 Black A

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(Contd. of page 12)
CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk
   Information Platform

DOT: US Department of Transportation

DSL: Canada Domestic Substance List
ESIS: European Chemical Substances Information System

HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System

HSDB: US NLM TOXNET Hazardous Substances Databank

USNA COLD: New Zooland Hazardous Substances Databank
  HSDB: US NLM TOXNET Hazardous Substances Databank
HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database
IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)
IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)
ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)
ICSC: International Chemical Safety Cards
IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA
under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG)
Koc: Partition coefficient, soil Organic Carbon to water
LCSO/LD50: Lethal Concentration/Dose, 50 percent
N/a: Not available or Not applicable
  LC50/LD50: Lethal Concentration/Dose, 50 percent N/a: Not available or Not applicable NFPA: US National Fire Protection Association NIOSH: US National Institute of Occupational Safety and Health NITE: National Institute of Technology and Evaluation, Japan OECD: Organisation for Economic Co-operation and Development OSHA: US Occupational Safety and Health Administration Pollutant
P: Marine Pollutant
RCRA: Resource Conservation and Recovery Act (USA)
REACh: EU Registry, Evaluation and Authorisation of Chemicals
RID: the Requilations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International
Carriage by Rail (OTIF)
RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN)
RTECS: US Registry of Toxic Effects of Chemical Substances
SARA: US Superfund Amendments and Reauthorization Act
SIDS: OECD existing chemicals Screening Information Data Sets
SIDS SIAM(R): SIDS Initial Assessment Meetings(Reports)
SVHC: EU ECHA Substance of Very High Concern
TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions
(SCAPA) of US Department of Energy (DOE)
TOXLINE: US NLM bibliographic database search system
TSCA: US Toxic Substance Control Act

Date of preparation / last revision 09/21/2016 / -
               Marine Pollutant
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