

acc. to OSHA HCS

Print Date 06/12/2015

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Product Identifier Trade Name: <u>TL5072</u>

Application of the Substance or Mixture: Anaerobic Adhesive

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



Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory 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

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.

Precautionary statements

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. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)



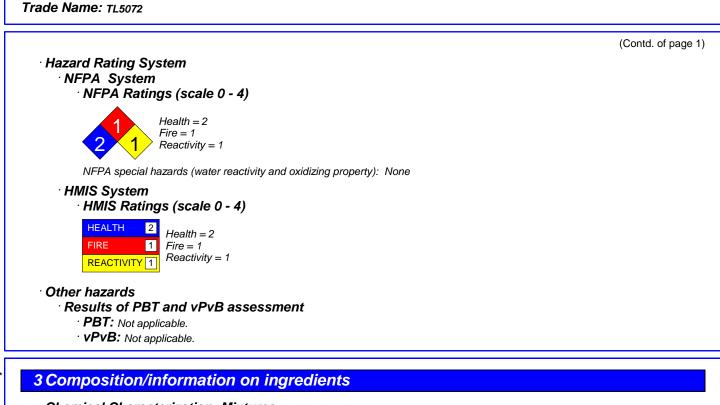
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Chemical Characterization: Mixtures

Composition/Information on Ingredients				
CAS: 80-15-9 EINECS: 201-254-7 Index Number: 617-002-00-8 RTECS: MX 2450000	Cumene hydroperoxide	 Self-react. CD, H242 Acute Tox. 3, H331 STOT RE 2, H373 Skin Corr. 1A, H314 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Acute Tox. 4, H312 Flam. Liq. 4, H227; Aquatic Acute 2, H401 	1-2.5%	

[•] 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. Seek immediate medical advice.

After Skin Contact

Remove all contaminated clothing and wash before reuse. Wash contaminated skin with water and soap and rinse thoroughly. Seek immediate medical advice.

After Eye Contact

Immediately bathe eyes for 15 minutes under running water. Immediately remove contact lenses if present. Continue rinsing. Seek immediate medical advice.

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· 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: eye tests 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. Carbon dioxide (CO_2) . 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: Carbon dioxide (CO_2) 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).

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

Ensure adequate ventilation.

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Eliminate all ignition sources. Keep unauthorized personnel away. For large spills: Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Allow molten product to cool. Absorb residues with liquid-binding materials. 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

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.

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

80-15-9 Cumene hydroperoxide

WEEL Long-term value: 6 mg/m³, 1 ppm

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. Keep food, drink or feed away from working area.

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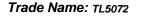


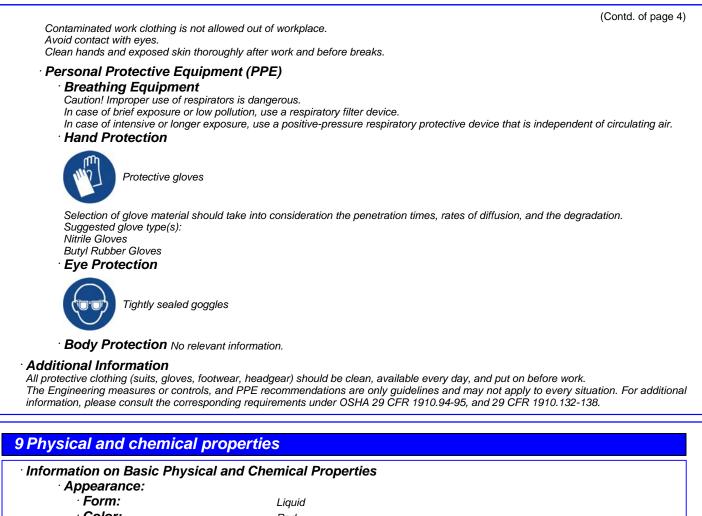
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Appearance.		
· Form:	Liquid	
· Color:	Red	
· Odor:	Mild	
· Odor Threshold:	Not determined.	
PH-Value:	Not determined.	
· Change in Condition:		
• Melting Point:	Not determined.	
Boiling Point:	>149 °C (>300 °F)	
· Flash Point:	> 93 °C (> 199 °F)	
Decomposition Temperature:	Not determined.	
Flammability:	Not determined.	
Explosion:	Not determined.	
Explosion Limits:		
Lower:	Not determined.	
· Upper:	Not determined.	
· Vapor Pressure:	Not determined.	
Vapor Density:	not determined	
Density at 25 °C (77 °F):	1.11 g/cm³ (9.263 lbs/gal)	
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		(Contd. of page 5)
• Solubility in or Miscibility w	ith	
· Water:	Not miscible or difficult to mix.	
· Viscosity:		
· Dynamic at 20 °C (68 °F):	9000 cps	
· Kinematic:	Not determined.	
· Additional Information	No further relevant information.	

10 Stability and reactivity

· Physical Hazard(s) Not a regulated reactive or physical hazard under GHS.

· Hazardous Reactivity and Chemical Stability

Product may react if exposed to amines, inert gases, metallic salts, heat sources or oxidizers. May decompose, condense, or self-react under conditions of high temperature and/or pressure; but there is little or no potential for heat generation or explosion, or readily undergo hazardous polymerization in the absence of inhibitors.

Thermal Decomposition and Conditions to be Avoided

Keep away from incompatible material(s).

Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.

· Possibility of Other Hazardous Reaction(s) No further relevant information available.

Incompatible Material(s)

Oxidizing agents, Acids, Bases, Reducing agents, Cobalt, Copper and copper alloys

Cobalt Sodium iodide Lead or Lead alloys Potassium hydroxide

• Hazardous Decomposition Product(s)

Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.

• Hazardous Polymerization Product(s) No relevant information.

· Additional Information No further relevant information.

11 Toxicological information

· Acute Toxicity

· (Oral		
Oral	LD50	>10000 mg/kg (Test species: n/a) Reference: ASI (M)SDS (2002).	
2585	52-47-5	Polyethylene glycol dimethacrylate	
Oral	LD50	(No data available)	
81-0	7-2 Sa	ccharin	
Oral	LD50	14200 mg/kg (rat) 17500 mg/kg (mouse) Reference: NLM Toxnet (2012).	
80-1	5-9 Cu	mene hydroperoxide	
Oral	LD50	382 mg/kg (rat) (Test guideline not available) Reference: Aldrich (M)SDS (2012).	
1129	945-52-	5 Silicon dioxide, chemically prepared (Wetted)	
Oral	LD50	>5000 mg/kg (Rats and Mice) (Read across from 7631-86-9; OECD TG 401) No mortality occurred; the substance was not classified as an acute oral hazard. Reference: ECHA (2011).	
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	me: TLS	
	abnorma shock or	collapse
	See acu	e inhalative effect(s) for further information
· De	rmal	
Dermal		5000 mg/kg (Test species: n/a) eference: ASI (M)SDS (2002).
25852-4	47-5 Poly	ethylene glycol dimethacrylate
Dermal	LD50 (No data available)
	Saccha	
Dermal	B	No data available) ased on the acute oral toxicity test, it was expected that toxicity to mammals via dermal application of the substance w ot a significant concern, and resulted in a similar lack of acute toxicity.
80-15-9	Cumene	e hydroperoxide
Dermal	5 5 T	rat) 190-1515 mg/kg (non-occluded; calculated from LD50 of 1.13-1.43 ml/kg) 30-1060 mg/kg (occluded; calculated from LD50 of 0.5-1.0 ml/kg) 00 mg/kg (From vendor's MSDS; test detail not available) he substance was classified as Category 4 for acute dermal toxicity by ECHA. eference: Aldrich (M)SDS (2012), ECHA (2012) and NIOSH (2012).
112945	-52-5 Sill	con dioxide, chemically prepared (Wetted)
Dermal	N	5000 mg/kg (rabbit) (Read across from 7631-86-9; occlusive) o mortality occurred; the substance was not classified as an acute dermal hazard. eference: ECHA (2011).
· Inh	nalative	e inhalative effect(s) for further information. eta eta eta eta eta eta eta et
Inhalativ	ve LC50,	4 h (No data available)
81-07-2	Saccha	in
Inhalativ	ve LC50,	(4 h (No data available) Due to wetted form of the substance, inhalative effects from dust form can be seen as negligible. Meanwhile, bas 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 acu inhalative hazard.
80-15-9	Cumene	e hydroperoxide
Inhalati	ve LC50,	 ⁽⁴ h) 1.37 mg/l (rat) (mists; estimated from LC50/4h of 220ppm) 1.24 mg/l (mouse) (estimated from LC50/4hr of 200 ppm) The LC50 of 1.37 mg/L (220 ppm) was higher than the saturated vapor concentration (4 ppm) under a saturate vapour pressure of 4.36E-3 hPa (25 °C), the substance was therefore considered as "mist". The substance w therefore classified as an Category 4 (mist) for acute inhalation hazard.
		Reference: Aldrich (M)SDS (2012), ECHA (2011) and HDSB (2011).
		con dioxide, chemically prepared (Wetted)
		 con dioxide, chemically prepared (Wetted) (4 h (Test species: n/a) Due to wetted form of the substance, inhalative effects can be seen as negligible. Meanwhile, based on the accord to a contract to a c
Inhalativ	Ve LC50, Potent While nc chest tig cough	 Con dioxide, chemically prepared (Wetted) (4 h (Test species: n/a) Due to wetted form of the substance, inhalative effects can be seen as negligible. Meanwhile, based on the acurrent or al toxicity test, it was expected that toxicity to mammals via inhalation of the substance was not a significat concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute inhalative hazard. ial Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): https://doi.org/10.1001/10
Inhalativ	Ve LC50, Potent While nc chest tig cough	 Con dioxide, chemically prepared (Wetted) (4 h) (Test species: n/a) Due to wetted form of the substance, inhalative effects can be seen as negligible. Meanwhile, based on the acurring or loxicity test, it was expected that toxicity to mammals via inhalation of the substance was not a significat concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute inhalative hazard. Fial Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): htness or chest pain s or lightheadedness e
Inhalativ	Potent While no chest tig cough dizziness headach hoarsend	 Con dioxide, chemically prepared (Wetted) (7 est species: n/a) Due to wetted form of the substance, inhalative effects can be seen as negligible. Meanwhile, based on the accurring or loxicity test, it was expected that toxicity to mammals via inhalation of the substance was not a significat concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute inhalative hazard. Fial Health Effect(s): t possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s): https://doi.org/10.1001/10



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(Contd. of page 7) shortness of breath sore throat vomitina anorexia, diarrhea and gastric hyperacidity Intensive or long term exposure: lung edema Skin Corrosion or Irritation 25852-47-5 Polyethylene glycol dimethacrylate Corrosion/Irritation (No data available) 81-07-2 Saccharin Corrosion/Irritation (No data available) 80-15-9 Cumene hydroperoxide Corrosion/Irritation corrosive (rabbit) (shaved skin) Neat substance: marked necrosis was observed on 4 out of 6 rabbits; 10% solution: moderate erythema was observed on 3 out of 6 rabbits. The substance was therefore classified as corrosive (Category 1B) to rabbit skin. Reference: ECHA (2011). 112945-52-5 Silicon dioxide, chemically prepared (Wetted) Corrosion/Irritation not irritating (rabbit) (Read across from 7631-86-9; OECD TG 404) During the observation period, neither erythema nor edema could be detected in any of the test animals. The overall irritation index was 0. Thus, the substance was not classified as a dermal irritant. Reference: ECHA (2011). Potential Health Effect(s): Causes skin irritation. In contact with skin, may cause: blister formulation redness and pain · Eye Serious Damage or Irritation 25852-47-5 Polyethylene glycol dimethacrylate Damage/Irritation (No data available) 81-07-2 Saccharin Damage/Irritation (No data available) 80-15-9 Cumene hvdroperoxide Damage/Irritation serious (rabbit) 0.005 ml undiluted substance: severe corneal injury with iritis and necrosis of eyelids were observed. 0.005 ml 5% solution: moderate corneal injury with iritis was observed. Overall evaluation: Grade 9; the substance was therefore classified as a serious eye irritant (Category 1). Reference: ECHA (2011). 112945-52-5 Silicon dioxide, chemically prepared (Wetted) (rabbit) (Read across from 7631-86-9; OECD TG 405) Damage/Irritation Overall irritation score was 0 (Max. 4) No irritating effects (conjunctivae, iris, or cornea) were observed in rabbit eyes. (human) The substance was slightly irritating to human eyes by OECD SIDS. Although no more details were available, the substance was classified as a mild eye irritant (Category 2B) for safety reason. Reference: ECHA (2011) and OECD SIDS (2004). Potential Health Effect(s): Causes serious eye irritation. In contact with eye, may cause: redness and pain Respiratory or Skin Sensitization 25852-47-5 Polyethylene glycol dimethacrylate Sensitization Skin (No data available) Respiratory (No data available) 81-07-2 Saccharin Sensitization Skin (No data available) Respiratory (No data available) (Contd. on page 9) US



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80-15-9 Cum	ene hvdrone	contd. of pa
Sensitization		(No data available)
		(No data available)
112945-52-5		ide, chemically prepared (Wetted)
Sensitization	Skin	not sensitizing (guinea pig) There was a case of allergic dermatitis developing after a contact exposure to the substance. However, it concluded that violated intactness of skin integument was largely responsible for the allergic reaction; substance was therefore not classified as a dermal sensitizer. Reference: OECD SIDS (2004). (Test species: n/a)
Det		Due to wetted form of the substance, inhalative effects can be seen as negligible.
Mayo	cause an alle	Ith Effect(s): rgic skin reaction. ation for respiratory sensitization; classification is not possible.
		cupational Safety & Health Administration)
None of the ii		
	Cell Mutag	
		glycol dimethacrylate
Mutagenicity 81-07-2 Saco	-	aliadie)
		st species listed below)
	metabolic ac In Vivo (Man Reference: N	nmal chromosome aberrations; male mice; ip with up to 4000 mg/kg bw/day) – Negative VLM Toxnet (2012).
80-15-9 Cum		
matagomony	In Vitro (Bac positive with In Vivo (Mici did not indu substance w	est species listed below) sterial reverse mutation assay; OECD TG 471; S. typhimurium TA97, TA98, TA100, TA102, TA1537, TA153 out metabolic activation. ronucleus assay; Standard NTP toxicity studies; mouse; dermal with up to 12 mg/kg for 13 weeks) - negative ice micronuclei in peripheral blood of the test animals. Due to the negative results from In Vivo tests, ras not classified as a mutagen. ECHA (2011).
112945-52-5		ide, chemically prepared (Wetted)
	negative (Te In Vitro (Ame In Vitro (HGI In Vitro (Chr In Vitro (Rev In Vitro (Cyt In Vitro (Uns In Vivo (Cyt substance w	ist species listed below) (Read across from 7631-86-9) es Test; salmonella typhimurium) - Negative with and without metabolic activation. PRT Assay in CHO cells) - Negative with and without metabolic activation. omosomal aberration in CHO cells) - Negative with and without metabolic activation. rerse Mutation Assay; Escherichia coli) - Negative with and without metabolic activation. ogenetic Assay in human embryonic lung cells) - Negative with and without metabolic activation. scheduled DNA synthesis in rat hepatocytes) - Negative with and without metabolic activation. togenetic, Dominant lethal and Host mediated Assay; Rat) - All In Vivo tests showed negative results; as therefore not expected to pose any mutagenic potential. DECD SIDS (2004) and IUCLID Dataset (2004).
·Pote	ential Heal	Ith Effect(s): No further relevant information; classification is not possible.
	ogenicity	
		glycol dimethacrylate
	ity negative ((No data available) as a carcinogen according to ACGIH, IARC, NTP, or OSHA.
81-07-2 Saco	harin	
Carcinogenic	Not listed	(Test species: n/a) I as a carcinogen by ACGIH, NTP, or OSHA; and listed as a Group 3 carcinogen by IARC, which was le as to its carcinogenicity to humans. e: NLM Toxnet (2012).
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	not classified (Human) IARC Group 3: Not classifiable as to its carcinogenicity to humans. ACGIH;NTP;OSHA no component of this product present at levels greater than or equal to 0.1% is identified as a kno or anticipated carcinogen.
80-15-0 Cume	ne hydroperoxide
	v negative (Test species: n/a) Not listed as a carcinogen by IARC, NTP or ACGIH.
112945-52-5	ilicon dioxide, chemically prepared (Wetted)
	International properties (Notice), properties (N
· Pote	ntial Health Effect(s): Not a known Carcinogen.
	uctive Toxicity
	lyethylene glycol dimethacrylate
	Toxi. (No data available)
81-07-2 Saccl	· · · · · · · · · · · · · · · · · · ·
Reproductive	Foxi. <u>negative (mouse)</u> NOAEL (Reproductive Toxicity; mouse; oral with 194 mg/kg bw/day for 180 days) = 194 mg/kg bw/day; no effects reproduction were observed.
	NOAEL (Developmental Toxicity; 25 mg/kg bw/day during the pregnancy) = 25 mg/kg bw/day; no evidence teratogenicity was exhibited in tested pregnant mice. negative (Test species: mice, rats, rabbits)
	No malformations or other embryotoxic effects were observed in treated animals (mice, rats, and rabbits) after repeated oral doses with up to 600 mg/ bw/day of the substance or its sodium salt. Reference: NLM Toxnet (2012).
80-15-9 Cume	ne hydroperoxide
Reproductive	Toxi. (No data available)
	ilicon dioxide, chemically prepared (Wetted)
Reproductive	 Toxi. (Test species listed below) (Read across from 7631-86-9) NOAEL (Maternal toxicity) = 1600 (hamsters; 14 days); 1340 (mice; 20 days); 1350 (rats; 20 days); 1600 (rabbits; days) mg/kg/day. NOAEL (Teratogenicity) = 1600 (hamsters; 14 days); 1340 (mice; 20 days); 1350 (rats; 20 days); 1600 (rabbits; days) mg/kg/day. There were no clearly discernible effects observed on nidation, maternal animals, or fetal survival; the substance w not expected to pose a reproductive toxicity. Reference: OECD SIDS (2004) and IUCLID Dataset (2004).
· Pote	ntial Health Effect(s): No further relevant information; classification is not possible.
	Target Organ Toxicity - Single Exposure
	lyethylene glycol dimethacrylate
	(No data available)
81-07-2 Sacci	
Ű	(No data available)
	ne hydroperoxide
	Target: N/a (rat) Porphyrin deposition in nostrils and irregular breathing exhibited in treated rats after a single 4hr inhalation with 1.37 m concentrated mists of the substance; however, ECHA concluded it as conclusive but not sufficient for the classification. Reference: ECHA (2011).
	ilicon dioxide, chemically prepared (Wetted)
STOT-Single	(rat) (Read across from 7631-86-9) Target organs: None No significant changes on clinical signs or body weights were found after an oral administration with 5000 mg/kg of t substance. (rabbit) (Read across from 7631-86-9)
	(Tabli) (Read across from 7657-66-9) Target organs: None No systemic or target organ toxicities were observed after a single dermal administration with 5000 mg/kg of the substance Reference: ECHA (2011).



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Detert	(Contd. of page 10)
	al Health Effect(s): May cause respiratory irritation.
	arget Organ Toxicity - Repeated Exposure
•	thylene glycol dimethacrylate
	(No data available)
81-07-2 Sacchari	n
· · ·	(No data available)
80-15-9 Cumene	
1	Target: N/a (rat) NOAEC (Inhalation with up to 124 mg/m ³ ; aerosol; 3 months) = 31 mg/m ³ ; target organ related toxicological effects following inhalation with 124 mg/m ³ aerosol of the substance for 3 months included thymic atrophy, depletion of lymphoid tissue in germinal centers of some lymph nodes and spleen, decreased lipid content of liver, and decreased circulating white blood cells. However, our vendor or NIOSH didn't list it as a chronic target organ hazard. Reference: ECHA (2011) and Aldrich (M)SDS (2012).
112945-52-5 Silic	on dioxide, chemically prepared (Wetted)
	(rat) (Read across from 7631-86-9; OECD TG 452) Target Organs: None NOAEL(oral; 103 weeks) = 2000 mg/kg bw/day. The only effect which was reduced liver weights observed in females (approx. 7% and 15% after 12 and 24 months of exposure, respectively) was not considered to be pathologically relevant. Reference: ECHA (2011).
Potentia	al Health Effect(s): No further relevant information; classification is not possible.
· Aspiration	Hazard
25852-47-5 Polye	thylene glycol dimethacrylate
Aspiration Hazard	(No data available)
81-07-2 Sacchari	'n
Aspiration Hazard	(No data available)
80-15-9 Cumene	hydroperoxide
Aspiration Hazard	(No data available)
112945-52-5 Silic	on dioxide, chemically prepared (Wetted)
Aspiration Hazard	(No data available)
	al Health Effect(s): No relevant information; classification is not possible.
• Additional Inf	ormation No further relevant information.

Additional Information No further relevant information.

12 Ecological information

25852-47-5 Polyethyler	ne glycol dimethacrylate
Algae Toxicity	(No data available)
Crustacean Toxicity	(No data available)
Fish Toxicity	(No data available)
81-07-2 Saccharin	
Algae Toxicity	(No data available)
Crustacean Toxicity	(No data available)
Fish Toxicity	18300 mg/l (Pimephales promelas (fathead minnow)) (LC50 (96 hrs)) The substance is therefore not expected to pose an environmental hazard. Reference: NLM Toxnet (2012).
80-15-9 Cumene hydro	peroxide
Algae Toxicity	1.2 mg/l (Microcystis aeruginosa(Blue-green algae)) (toxicity threshold corresponds to EC3; 7 days)
Crustacean Toxicity	18.84 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs); OECD TG 202)
Fish Toxicity	3.9 mg/l (Oncorhynchus mykiss (Rainbow trout)) (LC50 (96 hrs); OECD TG 203) Based on the acute LC50 < 10 mg/l and the non-rapid degradability, the substance is classified as a chronic-2 environmental hazard. Reference: ECHA (2011).

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112945-52-5 Silic	on dioxide, chemically prepared (Wetted) (Contd. of page
Algae Toxicity (sta	
Algue Toxicity (Sie	EC50 (72 hrs) = 440 mg/L
	NOEC (72 hrs) = 60 mg/L
	LOEC (72 hrs) = 120 mg/L
Crustacean Toxici	
eruoluooun roxio	EC50 (24 hrs) > 10000 mg/L
Fish Toxicity (stati	
	LC0 (96 hrs) = 10000 mg/L
	Based on the acute L(E)C50 > 100 mg/L, the substance is not classified as an aquatic environmental hazard
	Reference: OECD SIDS (2004) and IUCLID Dataset (2004).
· Aquatic Er	vironmental Toxicity Assessment: No further relevant information; classification is not possible.
Degradability	and Stability
25852-47-5 Polye	thylene glycol dimethacrylate
Biodegradation	(No data available)
Persistence	(Test species: n/a)
	The substance is not persistent.
	Reference: Canada DSL (2007).
Photodegradation	(No data available)
Stability in water	(No data available)
81-07-2 Sacchari	
Biodegradation	(No data available)
Persistence	(Test species: n/a)
	The substance is not persistent.
	Reference: Canada DSL (2007).
Photodegradation	5.88E-12 cm ³ /molecule-sec (Test species: n/a) (at 25 °C)
	Reference: NLM Toxnet (2012).
Stability in water	(No data available)
80-15-9 Cumene	hydroperoxide
Biodegradation	non-biodegrad. (Test species: n/a) (OECD TG 301C; Chemical conc. 100 mg/l; 4 weeks)
	Biodegradation (Indirect analysis from BOD) = 0%
	Biodegradation (Direct analysis from TOC and GC) = 0% and 27% respectively.
	The substance is not biodegradable. Reference: CHRIP (2011).
Develotence	
Persistence	(Test species: n/a)
	The substance is not persistent. Reference: Canada DSL (2007).
Dhatadaaradatian	
Photodegradation	8.63E-12 cm³/molecule-sec (OH radical) (25 °C; 24 hour day) Half-life (5E5 OH/cm³) = 44.6 hours.
	Reference: ECHA (2011).
Stability in water	(No data available)
	on dioxide, chemically prepared (Wetted)
	(Test species: n/a)
	As an inorganic substance which is insoluble, it is expected to be non-biodegradable.
Persistence	(Test species: n/a)
	The substance is persistent.
Photodegradation	(Test species: n/a)
	As an inorganic compound with highly stable Si-O bonds, no photo-transformation is expected under environment
	conditions.
Stability in water	(Test species: n/a)
	Under the environmental condition (pH ranges from 6-8), the substance is expected to be very stable in water.
	Reference: ECHA (2011), OECD SIDS (2004) and IUCLID Dataset (2004).
	tion and Distribution
	thylene glycol dimethacrylate
	available)
The subs	stance is not bioaccumulative.
	0: Conodo USL (2007)
Referenc	e: Canada DSL (2007). (Contd. on page



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	(Contd. of page
Koc	(No data available)
LogPow	(No data available)
81-07-2	Saccharin
BCF	(No data available) The substance is not bioaccumulative. Reference: Canada DSL (2007).
Koc	20 L/kg (Test species: n/a) (Calculated) Reference: NLM Toxnet (2012).
LogPow	0.91 (Test species: n/a) Reference: NLM Toxnet (2012).
80-15-9	Cumene hydroperoxide
BCF	(Test species: n/a) The substance is not bioaccumulative. Reference: ECHA (2011) and Canada DSL (2007).
Кос	2346 L/kg (Test species: n/a) (calculated from PCKOCWIN v1.66) A high sorption potential onto soil organic matter of the substance is expected. Reference: ECHA (2011).
LogPow	1.82 (Test species: n/a) (OECD TG 107) Reference: ECHA (2011).
112945-	52-5 Silicon dioxide, chemically prepared (Wetted)
BCF	(No data available) The substance is not bioaccumulative. Reference: Canada DSL (2007).
	Therefore. Canada DSE (2007).
Koc	(No data available)

· 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.

RCRA Waste:				
81-07-2	Saccharin	U202	2.5-5%	
80-15-9	Cumene hydroperoxide	U096	1-<2.5%	

· 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.

4 Transport information		
· UN-Number	Not regulated for transport; not applicable.	
· Transport hazard class(es)	Not regulated for transport; not applicable.	
· Packing group	Not regulated for transport; not applicable.	
· Environmental Hazards:	Not applicable.	
		(Contd. on page 1



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2.5-5%

A, C, F, R 1-<2.5%

1-<2.5%

Special Precautions:

Not applicable.

Not applicable.

-

Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code

UN "Model Regulation":

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)

81-07-2 Saccharin

80-15-9 Cumene hydroperoxide

Section 311/312 (Hazardous Chemical Inventory Reporting)

80-15-9 Cumene hydroperoxide

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)

All ingredients are listed.

Proposition 65

· Chemicals Known to Cause Cancer

98-82-8 Isopropylbenzene

Chemicals Known to Cause Reproductive Toxicity for Females

None of the ingredients is listed.

· Chemicals Known to Cause Reproductive Toxicity for Males

None of the ingredients is listed.

Chemicals Known to Cause Developmental Toxicity

None of the ingredients is listed.

· Carcinogenic Categories

• EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

81-07-2 Saccharin

112945-52-5 Silicon dioxide, chemically prepared (Wetted)

· NTP (National Toxicology Program)

None of the ingredients is listed.

TLV (Threshold Limit Value Established by ACGIH)

None of the ingredients is listed.

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

None of the ingredients is listed.

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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%)

80-15-9 Cumene hydroperoxide 112945-52-5 Silicon dioxide, chemically prepared (Wetted)

• 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.

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: ÚS Toxic Substance Control Act

ACToR: US EPA Aggregated Computational Toxicology Resource

BCF: Bioconcentration Factor

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(Contd. of page 15) 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 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 Koc: Partition coefficient, soil Organic Carbon to water NITE: National Institute of Technology and Evaluation, Japan 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 06/12/2015/6 US