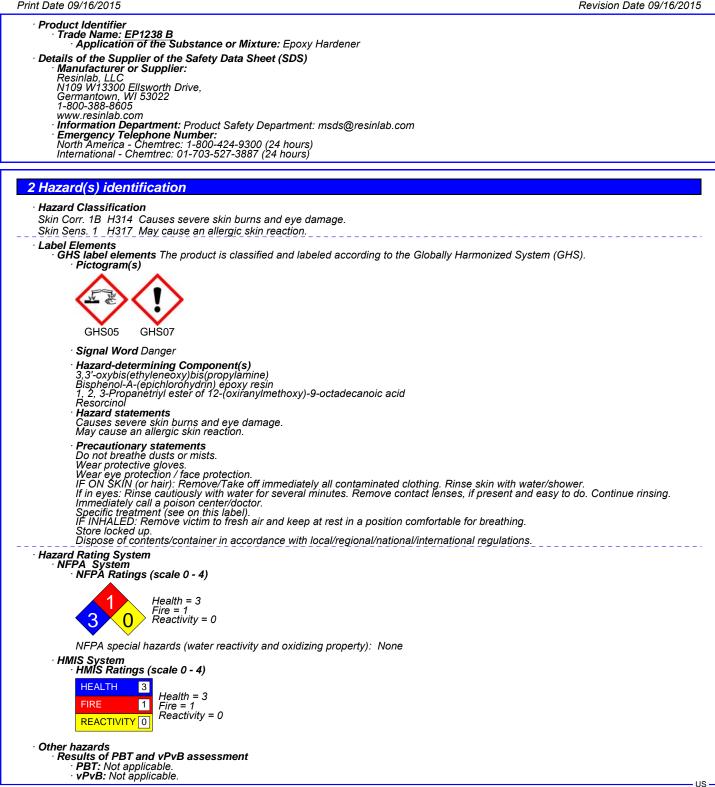


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3 Composition/informat	<u> </u>	
Chemical Characterization: Composition/Informatio		
	3,3'-oxybis(ethyleneoxy)bis(propylamine) Met. Corr. 1, H290; Skin Corr. 1B, H314 Skin Sens. 1, H317	50-60%
CAS: 25068-38-6 NLP: 500-033-5 Index Number: 603-074-00-8	Bisphenol-A-(epichlorohydrin) epoxy resin Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	20-<25%
CAS: 74398-71-3 EC number: 616-085-8	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid Skin Irrit. 2, H315; Skin Sens. 1, H317 Eye Dam. 2B, H320	10-20%
CAS: 108-46-3 EINECS: 203-585-2 Index Number: 604-010-00-1 RTECS: VG 9625000	Resorcinol Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317	2.5-5%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	2.5-5%

Classification System: The Classifications 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. In case of unconsciousness place patient stably in side position for transportation. Seek immediate medical advice.

After Skin Contact

Immediately remove all contaminated clothing and put them in a tightly sealed bag. Immediately wash contaminated skin with water and soap and rinse them thoroughly.

Seek immediate medical advice even if no symptoms develop.

After Eye Contact

Immediately irrigate eye while holding eyelids apart and continue to irrigate until patient receives medical attention. Continue to irrigate for one hour if medical attention is not promptly available. Do not put any ointments, oils or medication in eyes without specific instructions. IMMEDIATELY transport victim to a hospital even if no symptoms develop.

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. Do NOT induce vomiting. Seek immediate medical advice.

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 (CO2) Water spray or water fog. Unsuitable Extinguishing Agent(s) Water with full jet

Firefighting Procedures

Firefighting Procedures Isolate fire and deny unnecessary entry. Immediately withdraw all personnel from the area in case of rising sound from venting safety device. 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. Solid stream of water may spread fire; use water spray or water fog. Cool all affected containers with flooding quantities of water. Runoff from fire control or dilution water may be corrosive and/or toxic; protect personnel and minimize property damage. 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: May generate ammonia gas. Phenolics

Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires.



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arbon dioxide (COz) and Carbon monoxide (CO)

Nitrogen oxides` 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 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 touch damaged containers or spills unless wearing appropriate protective equipment.
 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

Keep away from sewage system or other water courses; do not penetrate ground/soil. Inform respective authorities in case of any seepage to the environment.

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.

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.

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. Avoid any body contact of containers or contents unless wearing appropriate personal protective equipment. Wear respiratory protection when handling. Keep away from incompatible material(s). Avoid any release into the environment

- Avoid any release into the environment. Observe all the personal protection requirements in Section 8. Information about Protection Against Explosions and Fires
- Will not burn unless preheated.
- Keep away from heat, sparks, open flame and other ignition sources during handling.

· 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 relaces to the approximant.

- Avoid release to the environment.
- Additional Information No further relevant information.

8 Exposure controls/personal protection

Exposure Limit Values that Require Monitoring at the Workplace 108-46-3 Resorcinol REL Short-term value: 90 mg/m³, 20 ppm Long-term value: 45 mg/m³, 10 ppm TLV Short-term value: 90 mg/m³, 20 ppm Long-term value: 45 mg/m³, 10 ppm 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica OSH4 PEL Short-term value: 15 mg/m³	 Engineering Measures or Cont 	rols
REL Short-term value: 90 mg/m³, 20 ppm Long-term value: 45 mg/m³, 10 ppm TLV Short-term value: 90 mg/m³, 20 ppm Long-term value: 90 mg/m³, 10 ppm 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	 Exposure Limit Values that 	Require Monitoring at the Workplace
Long-term value: 45 mğ/m³, 10 ppm TLV Short-term value: 90 mg/m³, 20 ppm Long-term value: 45 mg/m³, 10 ppm 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	108-46-3 Resorcinol	
67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	Long-term value: 45	mỹ/m³, 10 ppm
	TLV Short-term value: 90 Long-term value: 45	1 mg/m³, 20 ppm mg/m³, 10 ppm
OSHA PEL Short-term value: 15 mg/m ³	67762-90-7 Siloxanes and Silic	ones, di-Me, reaction products with silica
	OSHA PEL Short-term value: 15	i mg/m³
US ACGIH Short-term value: 10 mg/m ³	US ACGIH Short-term value: 10) mg/m ³
• 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.	Ventilation rates should be m If applicable, use process e	natched to conditions. enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below ts.
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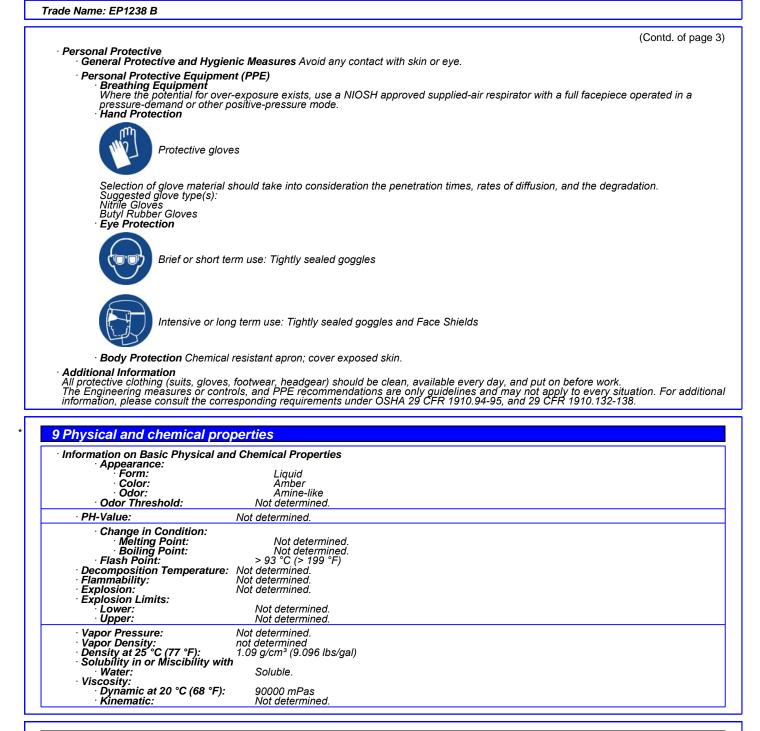
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10 Stability and reactivity

- · 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) No further relevant information available.

 Incompatible Material(s) Amine's.

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Oxidizing agents Acids Iron and iron salts Albumin; Camphor; Urethane; Menthol; Acetanilide; Spirit nitrous ether; and Antipyrine

Hazardous Decomposition Product(s) Ammonia (NH₃) and/or Amines. Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.

Hazardous Polymerization Product(s) No relevant information.

11 Toxicological information

ACUI	te Toxic	itv
	Oral	2
		3'-oxybis(ethyleneoxy)bis(propylamine)
		1290 mg/kg (rat)
Orai	F	Reference: Dixie Chemical (M)SDS (2006) and ChemID Full Record (2011).
2506		Bisphenol-A-(epichlorohydrin) epoxy resin
		1400 mg/kg (rat)
	1	15600 ma/kg (móuse)
	F	15600 mg/kg (móuse) Reference: NLM Toxnet (2010).
7439	98-71-3 1	I, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
Oral	LD50 >	> 5000 mg/kg (rat) Reference: Hexion (M)SDS (2003).
		sorcinol
		510 mg/kg (rat)
Orar	F	Reference: Oxychem (M)SDS (2015).
6776		Siloxanes and Silicones, di-Me, reaction products with silica
		-5000 mg/kg (rat) (test method not specified)
0/0/	F	Reference: Cabot (M)SDS (2012).
		ntial Health Effect(s):
	IT SW	allowed, may cause:´ ion of mucous membrane
		innesi menulane
	head	
	dizzir	
		a classified acute oral hazard.
		r, sweating, tinnitus, and shock
	Dermal	
		3'-oxybis(ethyleneoxy)bis(propylamine)
Derm	mal LD5	0 2500 mg/kg (rabbit) (Calculated from LD50 of 2.5 mL/kg) Reference: Dixie Chemical (M)SDS (2006) and ChemID Full Record (2011). Air Products SDS (2014)
2506	68-38-6 I	Bisphenol-A-(epichlorohydrin) epoxy resin
		0 20000 mg/kg (rabbit) (Test guideline not available)
- ••••		> 1270 mg/kg (mouse) > 2000 mg/kg (rat)
		> 2000 mg/kg (rat)
		> 1600 mg/kg (rabbit); however, there was no fixed test result available; classification was not possible without furth
		information.
		I, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
Derm	nal LD5	0 > 2000 mg/kg (rabbit) Performant di territi (USDS (2002)
	(0.0.5	Reference: Hexion (M)SDS (2003).
Derm	nal LD5	0 3360 mg/kg (rabbit) Reference: Oxychem 2015
0//6	02-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
Derm	nai LD5	0 (Test species: n/a) (Toxicity not expected based on acute oral data)
		Based on the acute oral toxicity test, it was expected that toxicity to mammals via dermal application of the substance w not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acu
		der al hazard as a wetted form.
	· Pote	ntial Health Effect(s): Not a classified acute dermal hazard.
	Inhalativ	
· / .		o 3'-oxybis(ethyleneoxy)bis(propylamine)
		C50/4 h (No data available)
4246	ativeli	Bisphenol-A-(epichlorohydrin) epoxy resin
4246 Inhal		
4246 Inhal 2506	68-38-6 E	250/4 b (Test species: n/a) (Toxicity not expected based on the soute oral data)
4246 Inhal 2506 Inhal	6 8-38-6 E lative LC	C50/4 h (Test species: n/a) (Toxicity not expected based on the acute oral data)
4246 Inhal 2506 Inhal 7439	68-38-6 E lative LC 98-71-3 1	I, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
4246 Inhal 2506 Inhal 7439 Inhal	68-38-6 E lative LC 98-71-3 1 lative LC	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid C50/4 h (Test species: n/a) (Toxicity not expected based on the acute oral data)
4246 Inhal 2506 Inhal 7439 Inhal 108-4	68-38-6 L lative L 98-71-3 1 lative L -46-3 Re:	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid C50/4 h (Test species: n/a) (Toxicity not expected based on the acute oral data) sorcinol
4246 Inhal 2506 Inhal 7439 Inhal 108-4	68-38-6 L lative L 98-71-3 1 lative L -46-3 Re:	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid C50/4 h (Test species: n/a) (Toxicity not expected based on the acute oral data)



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	7 Siloxanes and Silicones, di-Me, reaction products with silica (Contd. of pag
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, 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 inhalation hazard.
·Po	tential (Health Effect(s):
co	ugh
	zzīness or lightheadedness adache
na	usea
	ortness of breath
	re throat neezing
dy:	spnea
coi me	nvulsion ethemoglobinemia (blue skin, blue lips, and blue finger nails)
	ethemoglobinemia (blue skin, blue lips, and blue finger nails) ot a classified acute inhalative hazard.
	Corrosion or Irritation
4246-51-9	3,3'-oxybis(ethyleneoxy)bis(propylamine)
	Irritation corrosive (rabbit) (serious and irreversible skin effects observed) Application with 0.5 mL of the substance to rabbit skin resulted in severe erythema, moderate edema, ecchymosis, a necrosis which still remained after 21 days. Thus, the substance was classified as a corrosive skin irritant (Category 1 Reference: Dixie Chemical (M)SDS (2006) and EPA National Cancer Institute report (2011).
25068-38-	6 Bisphenol-A-(epichlorohydrin) epoxy resin
Corrosion/	Irritation irritating (rabbit) Acute skin irritation was mild, through repeated and prolonged exposure may cause severe irritation.
	The substance was classified as Category 2 by GHS-J. Reference: HSNO CCID (2010) and GHS-J (2006).
74000 74	Reference: HSNO CCID (2010) and GHS-J (2006).
	3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid /Irritation slightly irri. (Test species: n/a)
	Based on manufacturer's test result, the substance was slightly irritating to skin (Category 3). Reference: Hexion (M)SDS (2003).
	Resorcinol
Corrosion/i	Irritation irritating (rabbit) (FHSLA method; 500mg neat substance) Primary dermal irritation index (PDII): 4.4; the substance was therefore classified as irritating (Category 2) to rabbit su based on the criteria. Reference: ECHA (2012).
67762-90-7	7 Siloxanes and Silicones, di-Me, reaction products with silica
	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).
Ca In dry	otential Health Effect(s): auses severe skin burns and eye damage. contact with skin, may cause: yness in rash
rec	dness, pain and severe skin burns
	erious Damage or Irritation
4246-51-9	3,3'-oxybis(ethyleneoxy)bis(propylamine) ritation serious damage (Test species: n/a) (Based on the corrosive effects to rabbit skin)
	Based on the corrosive effects to rabbit skin, the substance was classified as a serious eye irritant (Category 1).
	6 Bisphenol-A-(epichlorohydrin) epoxy resin ritation irritating (rabbit)
-	The substance caused eye irritation (Category 2A) based on the dermal effect to rabbit skin.
	3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
	ritation (No data available)
	Resorcinol ritation corrosive (rabbit)
Damage/in	Overall irritation score: 105/110 (FHSLA method; 0.1g neat substance; Max. score: 110; Time point: 24+48+72 h mean score of all treated animals); irreversible at the end of the test; the substance was therefore classified as corrosiv seriously damage to rabbit eyes. Reference: ECHA (2012).
	7 Siloxanes and Silicones, di-Me, reaction products with silica
Damage/In	ritation 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 th eye bodies. However, those effects can be seen as negligible based on regular use of the substance. When applyi lower viscosity substance-oil mixture to human and rabbit eyes, there was no comea injury, but a delay of healing of t existed corneal erosion observed. For safety reasons, the substance was classified as a slight eye irritant (Category 2E Reference: ACTOR (2011) and Cabot (M)SDS (2012).
	otential Health Effect(s):
· Po	auses serious eye damage.
Ca	
Ca In	contact with eye, may cause: crease or loss of vision
Ca In de	contact with eye, may cause: crease or loss of vision dness, pain and severe deep burns (Contd. on pag



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Resinlab

	(Contd. of pa
	ory or Skin Sensitization
4246-51-9 3,3 Sensitization	3'-oxybis(ethyleneoxy)bis(propylamine)
Sensilization	Skin (No data available) Respiratory (No data available)
25060 20 6 0	respiratory (No data available) isphenol-A-(epichlorohydrin) epoxy resin
Sensitization	
Sensilization	Skin sensitizing (Human) Based on positive results from skin sensitization tests on human volunteers and guinea pigs, GHS-J class
	the substance as a demal sensitizer.
	Reference: GHS-J (2006).
	Respiratory (No data available)
74398-71-3 1	, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
Sensitization	
	Based on manufacturer's test result, the substance was a skin sensitizer, and the sensitization can be seve
	susceptible individuals. Reference: Hexion (M)SDS (2003).
	Respiratory (No data available)
108-46-3 Res	
Sensitization	
Sensilization	Skin sensitizing (mouse) (OECD TG 429; intradermal and epicutaneous; max.25%) Stimulation Index (Concentration: 0.1%, 0.5%, 1%, 5%, and 25%) = 1.58, 2.87, 1.97, 3.51, and 3 respectively. Thus, the threshold positive value of 3 was exceeded at concentrations equal to 5% and the ab the substance was therefore considered as positive in this LLNA test, and as a moderate skin sensitizer ba
	on the classification criteria. Reference: ECHA (2012).
	Respiratory (No data available)
	iloxanes and Silicones, di-Me, reaction products with silica
Sensitization	Skin (No data available) Primary irritation index=0 Non-irritating. Cabot MSDS (2012)
	Respiratory (No data available)
	ntial Health Effect(s):
Mav c	cause an allergic skiń reaction.
Nore	levant information for skin sensitization; classification is not possible.
No re	levant information for respiratory sensitization; classification is not possible.
	A-Ca (Occupational Safety & Health Administration)
	ngredients is listed.
	II Mutagenicity
	Y-oxybis(ethyleneoxy)bis(propylamine)
Mutagenicity	(No data available) (Ames)
	Not mutagenic in ÁMES teíst. Air Products SDS (2014)
	isphenol-A-(epichlorohydrin) epoxy resin
watagemeny	positive (Chinese hamster lung fibroblast cells) (In Vitro (Chromosomal Aberration)) In Vitro (Chromosomal Aberration; Chinese hamster lung fibroblast cells) - Positive without metabolic activation; nega
	with metabolic activation.
	Positive (salmonella typhimurium) (In Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to n a conclusion of mutagenicity of the substance. Reference: NLM CCRIS (2010).
	, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
	(No data available)
108-46-3 Res	
Mutagenicity	negative (Test species listed below) In Vitro (Bacterial reverse mutation assay; OECD TG 471; S. typhimurium TA98, TA100, TA1535, TA1537, TA102) - nega with and without metabolic activation
	In Vitro (Sister chromatid exchange assay in Chinese hamster Ovary (CHO) cells) - positive with metabolic activation In Vitro (Mammalian cell micronucleus test; OECD TG 487; Human (female) lymphocyte cultures) - positive with and wit
	metabolic activation In Vitro (Mammalian cell gene mutation assay; OECD TG 476; mouse lymphoma L5178Y cells) - negative with and wit metabolic activation
	In Vivo (Drosophila SLRL test; Drosophila melanogaster; oral with up to 11000 ppm) - negative In Vivo (Sister chromatid exchange assay; rat; intraperitoneal with up to 100 mg/kg bw) - negative In Vivo (Micronucleus assay; OECD TG 474; rat, oral with up to 500 mg/kg bw) - negative
	Only negative results were observed from the In Vivo tests, the substance was therefore considered as negative mutagenicity. Reference: ECHA (2012).
67762-90-7 9	iloxanes and Silicones, di-Me, reaction products with silica
Mutagenicity	negative (Chinese Hamster) (In Vitro (AMES Testi))
	negative (Chinese Hamster) (In Vitro (AMES Test)) negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells)) Reference: Cabot (M)SDS (2012).
Poter	ntial Health Effect(s): No relevant information; classification is not possible.
	enicity Contract of Contract o
Carcinou	⁷ -oxybis(ethyleneoxy)bis(propylamine)
4246-51-9 3,3	
4246-51-9 3,3 Carcinogenici	ty negative (Test species: n/a) (not listed as a Carcinogen by NTP, IARC or OSHA) isphenol-A-(epichlorohydrin) epoxy resin



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	(Contd. of page
Carcinogenicity	negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA)
	(Mouse) 1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 10% concentration of the substance for two years. When considering all of the evidence, the substance was not classified as a carcinogen
	concentration of the substance for two years. When considering an of the evidence, the substance was not classified as a carcinogen.
	3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
	negative (Test species: n/a) (not listed as a Carcinogen by NTP, IARC or OSHA)
108-46-3 Resor	
Carcinogenicity	negative (Test species: n/a) Not listed as a carcinogen by ACGIH, NTP, or OSHA; and listed as a Group 3 carcinogen by IARC, which was no classifiable as to its carcinogenicity to humans.
67762-90-7 Silo	xanes and Silicones, di-Me, reaction products with silica
	(Test species: n/a) (Not listed by IARC, NTP, OSHA or ACGIH)
	I Health Effect(s): Not a known Carcinogen.
· Reproductiv	re Toxicity
4246-51-9 3,3'-0	xybis(ethyleneoxy)bis(propylamine)
Reproductive To	xi. (No data available)
05000 00 0 D'	No data available on the product itself.
	phenol-A-(epichlorohydrin) epoxy resin
Reproductive To	xi. negative (Test species: n/a) (no reproductive or developmental effect observed) There was no reproductive or developmental effect observed at dosing levels that were toxic to parental animals. Reference: GHS-J (2006).
74398-71-3 1, 2,	3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
	xi. (No data available)
108-46-3 Resor	
Reproductive To	NOAEL (Toxicity to reproduction: OECD TG 416: both sexes: P. F0 and F1 generations: oral with up to 3000 mg/)
	3000 mg/l; no rélevant effects observed. NOAEL (Developmental toxicity; OECD TG 414; oral with up to 250 mg/kg/day; maternal toxicity) = 80 mg/kg bw/day statistically significant body weight changes were observed in the maternal animals.
	NOAEL (Developmental toxicity; OECD TG 414; oral with up to 250 mg/kg/day; teratogenicity) = 250 mg/kg bw/day; n relevant effects observed. When considering all of the evidence, the substance was not classified as a reproductiv
	relevant effects observed. When considering all of the evidence, the substance was not classified as a reproductive hazard.
	Reference: ECHA (2012).
67762-90-7 Silo	anes and Silicones, di-Me, reaction products with silica
	xi. (No data available)
	I Health Effect(s):
rotentie	וו ווכמונו בווכטנטן.
Not a kn	own Reproductívé hazard.
Not a kn No relev	own Reproductivé hazard. ant information; classification is not possible.
Not a kn No relev • Specific Ta i	own Reproductivé hazard. ant information; classification is not possible. 'get Organ Toxicity - Single Exposure
Not a kn No relev • Specific Tai 4246-51-9 3,3'-o	own Reproductivé hazard. ant information; classification is not possible. get Organ Toxicity - Single Exposure xybis(ethyleneoxy)bis(propylamine)
Not a kn No relev Specific Tai 4246-51-9 3,3'-o STOT-Single	own Reproductivé hazard. ant information; classification is not possible. get Organ Toxicity - Single Exposure xybis(ethyleneoxy)bis(propylamine) (No data available)
Not a kn No relev Specific Tai 4246-51-9 3,3'-o STOT-Single 25068-38-6 Bisp	own Reproductivé hazard. ant information; classification is not possible. get Organ Toxicity - Single Exposure xybis(ethyleneoxy)bis(propylamine) (No data available) bhenol-A-(epichlorohydrin) epoxy resin
Not a kn No relev Specific Tai 4246-51-9 3,3'-o STOT-Single	own Reproductivé hazard. ant information; classification is not possible. 'get Organ Toxicity - Single Exposure xybis(ethyleneoxy)bis(propylamine) (No data available) henol-A-(epichlorohydrin) epoxy resin Target: None (Rats and Mice) (No effect after single oral doses) Somnolence (general depressed activity) and dyspnea were observed after a single oral application with 1140 mg/kg to rats, or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of th guidance value ranges
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Not a kn No relev Specific Tai 4246-51-9 3,3'-o STOT-Single 25068-38-6 Bisp STOT-Single	own Reproductivé hazard. ant information; classification is not possible. 'get Organ Toxicity - Single Exposure xybis(ethyleneoxy)bis(propylamine) (No data available) henol-A-(epichlorohydrin) epoxy resin Target: None (Rats and Mice) (No effect after single oral doses) Somnolence (general depressed activity) and dyspnea were observed after a single oral application with 1140 mg/kg to rats, or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of th guidance value ranges
Not a kn No relev Specific Tai 4246-51-9 3,3'-o STOT-Single 25068-38-6 Bisp STOT-Single 74398-71-3 1, 2, STOT-Single 108-46-3 Resord	own Reproductive hazard. ant information; classification is not possible. 'get Organ Toxicity - Single Exposure xybis(ethyleneoxy)bis(propylamine) (No data available) henol-A-(epichlorohydrin) epoxy resin Target: None (Rats and Mice) (No effect after single oral doses) Somnolence (general depressed activity) and dyspnea were observed after a single oral application with 1140 mg/kg to rats, or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of the guidance value ranges. Reference: NLM Toxnet (2010). 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid (No data available)
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Not a kn No relev Specific Tai 4246-51-9 3,3'-o STOT-Single 25068-38-6 Bisp STOT-Single 74398-71-3 1, 2, STOT-Single 108-46-3 Resord	own Reproductivé hazard. ant information; classification is not possible. get Organ Toxicity - Single Exposure xybis(ethyleneoxy)bis(propylamine) [(No data available) bhenol-A-(epichlorohydrin) epoxy resin Target: None (Rats and Mice) (No effect after single oral doses) Somnolence (general depressed activity) and dyspnea were observed after a single oral application with 1140 mg/kg to rats, or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of th guidance value ranges. Reference: NLM Toxnet (2010). 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid [(No data available) cinol [(Human) Based on human epidemiological report, effects including restlessness, methemoglobinemia, cyanosis, dizziness drowsiness, convulsions, tachycardia, dyspnea, decrease of body temperature, decrease of blood pressure, lowe respiratory rate, jaundice, and even mortalities occurred after oral inoculation or percutaneous exposure of th substance. However, the substance was not a confirmed hazard via single exposure according to US Federa agencies. Classification was therefore not possible without further information.
Not a kn No relev Specific Tai 4246-51-9 3,3'-0 STOT-Single 25068-38-6 Bisp STOT-Single 74398-71-3 1, 2, STOT-Single 108-46-3 Resord STOT-Single	own Reproductivé hazard. ant information; classification is not possible. get Organ Toxicity - Single Exposure xybis(ethyleneoxy)bis(propylamine) (No data available) bhenol-A-(epichlorohydrin) epoxy resin Target: None (Rats and Mice) (No effect after single oral doses) Somnolence (general depressed activity) and dyspnea were observed after a single oral application with 1140 mg/kg to rats, or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of th guidance value ranges. Reference: NLM Toxnet (2010). 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid (No data available) cinol (Human) Based on human epidemiological report, effects including restlessness, methemoglobinemia, cyanosis, dizziness drowsiness, convulsions, tachycardia, dyspnea, decrease of body temperature, decrease of blodo pressure, lowe respiratory rate, jaundice, and even mortalities occurred after oral inoculation or percutaneous exposure of th substance. However, the substance was not a confirmed hazard via single exposure according to US Federa agencies. Classification was therefore not possible without further information. Reference: GHS-J (2006) and ECHA (2012).
Not a kn No relev Specific Tai 4246-51-9 3,3'-o STOT-Single 25068-38-6 Bisp STOT-Single 74398-71-3 1, 2, STOT-Single 108-46-3 Resort STOT-Single 67762-90-7 Silo	own Reproductivé hazard. ant information; classification is not possible. get Organ Toxicity - Single Exposure xybis(ethyleneoxy)bis(propylamine) [No data available] bhenol-A-(epichlorohydrin) epoxy resin Target: None (Rats and Mice) (No effect after single oral doses) Somnolence (general depressed activity) and dyspnea were observed after a single oral application with 11400 mg/kg to rats, or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of the guidance value ranges. Reference: NLM Toxnet (2010). 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid [(No data available] cinol [Human] Based on human epidemiological report, effects including restlessness, methemoglobinemia, cyanosis, dizziness drowsiness, convulsions, tachycardia, dyspnea, decrease of body temperature, decrease of blod pressure, lowe respiratory rate, jaundice, and even mortalities occurred after oral inoculation or percutaneous exposure of the substance. However, the substance was not a confirmed hazard via single exposure according to US Federa agencies. Classification was therefore not possible without further information. Reference: GHS-J (2006) and ECHA (2012). xanes and Silicones, di-Me, reaction products with silica
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Not a kn No relev Specific Tai 4246-51-9 3,3'-o STOT-Single 25068-38-6 Bisp STOT-Single 108-46-3 Resort STOT-Single 108-46-3 Resort STOT-Single 67762-90-7 Silo STOT-Single (dy Potentia Specific Tai 4246-51-9 3,3'-o STOT-Repeated 25068-38-6 Bisp STOT-Repeated	own Reproductivé hazard. get Organ Toxicity - Single Exposure xybis(ethyleneoxy)bis(propylamine) {(No data available) Target: None (Rats and Mice) (No effect after single oral doses) Somolence (general depressed activity) and dyspnea were observed after a single oral application with 1140 mg/kg to rats, or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of the guidance value ranges. Reference: NLM Toxnet (2010). 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid {(No data available) time(Internation) Based on human epidemiological report, effects including restlessness, methemoglobinemia, cyanosis, dizziness drowsiness, convulsions, tachycardia, dyspnea, decrease of body temperature, decrease of blody pressure. Jowe respiratory rate, jaundice, and even mortalities occurred after oral inoculation or percutaneous exposure of th substance. However, the substance was not a confirmed hazard via single exposure according to US Federe agencies. Classification was therefore not possible without further information. Reference: GHS-J (2006) and ECHA (2012). xanes and Silicones, di-Me, reaction products with silica mamic) [(No data available) (No data
Not a kn No relev Specific Tai 4246-51-9 3,3'-o STOT-Single 74398-71-3 1, 2, STOT-Single 108-46-3 Resord STOT-Single 67762-90-7 Silo STOT-Single 67762-90-7 Silo STOT-Single 67762-90-7 Silo STOT-Single 67762-90-7 Silo STOT-Single 67762-90-7 Silo STOT-Single 5068-38-6 Bisg STOT-Repeated 25068-38-6 Bisg STOT-Repeated	own Reproductivé hazard. rget Organ Toxicity - Single Exposure rybis(ethyleneoxy)bis(propylamine) (No data available) rarget: None (Rats and Mice) (No effect after single oral doses) Somnolence (general depressed activity) and dyspnea were observed after a single oral application with 1140 mg/kg to rats, or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of the guidance value ranges. Reference: NLM Toxnet (2010). 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid (No data available) inol (Human) Based on human epidemiological report, effects including restlessness, methemoglobinemia, cyanosis, dizziness drowsiness, convulsions, tachycardia, dyspnea, decrease of body temperature, decrease of blood pressure, lowe respiratory rate, jaundice, and even mortalities occurred after oral inoculation or percutaneous exposure of th substance. However, the substance was not a confirmed hazard via single exposure according to US Federe agencies. Classification was therefore not possible without further information. Reference: GHS-J (2006) and ECHA (2012). xanes and Silicones, di-Me, reaction products with silica mamic) (No data available) (No data available) (No data available) M Health Effect(s): No relevant information; classification is not possible. get Organ Toxicity - Repeated Exposure xybis(ethyleneoxy)bis(propylamine) (No data available) (No data available) M Health Effect(s): No relevant information; classification is not possible. get Organ Toxicity - Repeated Exposure xybis(ethyleneoxy)bis(propylamine) (No data available) M Health Effect(s): No relevant information; classification is not possible. M Health Effect(s): No relevant information; classification is not possible. M Health Effect(s): No relevant information; classification is not possible. M Health Effect(s): No relevant information; classification is not possible. M Health Effect(s): No relevant information; classification is not possible. M Health Effect(s): No relevant information; class



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108-46-3 Resorcir	(Contd. of page
STOT-Repeated	
or or a repeated	Ω
'n	IOAEL (OECD TG 408; oral with up to 250 mg/kg bw/day) = 80 mg/kg bw/day; effects including intermittent convulsi novements and excessive salivation were observed. However, ECHA determined it as conclusive but not sufficient f
	lassification.
	Reference: GHS-J (2006) and ECHA (2012).
67762 00 7 Silova	nes and Silicones, di-Me, reaction products with silica
STOT-Repeated	
· Potential I	<i>lealth Effect(s):</i> No relevant information; classification is not possible.
· Aspiration Ha	
	/bis(ethyleneoxy)bis(propylamine)
Aspiration Hazard	(No data available)
25068-38-6 Bisph	enol-A-(epichlorohydrin) epoxy resin
	(No data available)
	Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
	(No data available)
108-46-3 Resorcir	
	(No data available)
	nes and Silicones, di-Me, reaction products with silica
Aspiration Hazard	(No data available)
· Potential I	lealth Effect(s): No relevant information; classification is not possible.
2 Ecological inf	brmation
Aquatic Environn	
	/bis(ethyleneoxy)bis(propylamine)
Algae Toxicity	(No data available)
Crustacean Toxicit	y (No data available)
Fish Toxicity	9730 mg/l (Test species: n/a) (Calculated by QSAR) Reference: CCR (2011).
	enol-A-(epichlorohydrin) epoxy resin
Algae Toxicity	(No data available)
	y 1.4 - 1.7 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs))
Fish Toxicity	1.41 mg/l (Oryzias latipes (Rice fish)) (LC50 (96 hrs))
	3.1 mg/l (Pimephales promelas (fathead minnow)) (LC50 (96 hrs))
	Based on the non-rapid degradability and the acute LC50 < 10 mg/L, the substance is classified as a Chronic
	environmental hazard
	Reference: CHRIP (2010).
74398-71-3 1, 2, 3	Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
Algae Toxicity	(No data available)
	y (No data available)
Fish Toxicity	(No data available)
108-46-3 Resorcir	iol
Algae Toxicity	> 97 mg/l (Pseudokirchneriella subcapitata) (EC50 (72 hrs); OECD TG 201)
Criveteeeen Tevieit	1.0 mm// (Dephaia manne (water flach) (CEO (12 km); OEO TO 201)
Crusiacean Toxici	y 1.0 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs): OECD TG 202) 78 mg/l (Palaemonetes pugio) (LC50 (48 hrs): EPA 660/3-75-009) Based on the rapid-degradability and the acute EC50 = 1mg/l, the substance is classified as an Acute-1 environment
	76 mg/ (Palaemonetes puglo) (LCS0 (46 ms), EPA 600/3-75-009)
	Based on the rapid-degradability and the acute EC50 = Tmg/i, the substance is classified as an Acute-T environment
	hazard.
Fish Toxicity	26.8 mg/l (Pimephales promelas (fathead minnow)) (LC50 (96 hrs); EPA-660/3/75-009) 34.7 mg/l (Leuciscus idus) (LC50 (96 hrs)) 260 mg/l (Oncorhynchus mykiss) (EC50 (60 days); OECD Draft "ELS-Test")
	34.7 mg/l (Leuciscus idus) (LC50 (96 hrs))
	260 mg/l (Oncorhynchus mykiss) (EC50 (60 days); OECD Draft "ELS-Test")
	Based on the chronic EC50 >> 1 ma/l, the substance is not classified as a chronic environmental hazard.
	Reference: ECHA (2012).
67762-90-7 Siloxa	nes and Silicones, di-Me, reaction products with silica
Algae Toxicity	> 10000 mg/l (Scenedesmus subspicatus) (ErC50 (24 hrs), OECD 201)
	y > 1000 mg/l (Daphnia magna (water flea)) (EC50 (24 hrs), OECD 202)
	$\gamma \sim 1000 \text{ mg/r} [Daphrind magna (watch heat) (ECO (24 ms), OECD 202)$
Fish Toxicity	> 10000 mg/l (Brachydanio rerio (Zebra fish)) (LC50 (96 hrs), OECD 203)
	Reference: Cabot (M)SDS (2012).
· Aquatic Envir	onmental Toxicity Assessment:
Harmful to agu	atic life with long lasting effects.
Not a known E	nvironmental hăzard to aquatic life.
Degradability and	
	bis(ethyleneoxy)bis(propylamine)
A246-51-0 2 2' av	
	(No data available)
Biodegradation	
	(Test species: n/a) (The substance is not persistent)
Biodegradation	(Test species: n/a) (The substance is not persistent)
Biodegradation Persistence	(Test species: n/a) (The substance is not persistent) Reference: Canada DSL (2007).
Biodegradation Persistence Photodegradation	(Test species: n/a) (The substance is not persistent) Reference: Canada DSL (2007). (No data available)
Biodegradation Persistence	(Test species: n/a) (The substance is not persistent) Reference: Canada DSL (2007).



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		(Contd. of page
25068-3	8-6 Bisph	enol-A-(epichlorohydrin) epoxy resin
Biodegra		non-biodegrad. (Test species: n/a) (Biodegradation (OECD TG 302B; 28 days) = 12%) (Activated Sludge) (OECD TG 301C; 4 weeks; Conc. 100 mg/L) Biodegradation (Indirect Analysis from BOD) = 0% Biodegradation (Direct Analysis from HPLC) = 0%
Persiste	nce	The substance is non-biodegradable. Reference: CHRIP (2010).
		(Test species: n/a) (This substance is persistent) Reference: Canada DSL (2007) and CHRIP (2010). 6.69E-11 cm³/molecule-sec (OH radical) (Half-life (T1/2) = 1.92 hrs)
		However, photolysis in water is negligible.
	in water	
Biodegra		-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid non-biodegrad. (Test species: n/a) (Non-biodegradable due to persistent property)
_		Based on the persistent assessment according to Canada DSL, the substance is expected to be non-degradable in th environment.
Persiste		(Test species: n/a) (The substance is persistent) Reference: Canada DSL (2007).
	gradation in water	(No data available) (No data available)
108-46-3	3 Resorciı	
Biodegra	adation	readily biodeg. (Test species: n/a) (OECD TG 301C; Chemical conc. 100 ppm; 2 weeks)
		Biodegradation (Indirect analysis from BOD) = 66.7% Biodegradation (Direct analysis from TOC, UV-vis, and HPLC) = 100%, 100%, and 100%. The substance is readily biodegradable. Reference: CHRIP (2012).
Persiste	nce	(Test species: n/a) The substance is not persistent.
Photode	gradation	Reference: Canada DSL (2007). 2.0E-10 cm³/molecule-sec (OH radical) Half-life (5E5 molecule/cm³) = 0.1 day
Stability	in water	Reference: ECHA (2012). (Test species: n/a) The substance has no functional groups susceptible to hydrolyze under environmentally relevant pH and temperatu
		conditions. Reference: ECHA (2012).
		nes and Silicones, di-Me, reaction products with silica
Biodegra Persiste		(No data available) (Test species: n/a) (The substance is not persistent) Reference: Canada DSL (2007).
	•	(No data available) (No data available)
	in water	
		and Distribution
BCF	LogBCF=	/bis(ethyleneoxy)bis(propylamine) =0.5 (Test species: n/a) (The substance is not bioaccumulative) e: Canada DSL (2007).
Koc LogPow	- 1 46 (Te	available) est species: n/a) (Calculated by KowWin) e: CCR (2011).
25068-3	8-6 Bisnh	enol-A-(epichlorohydrin) epoxy resin
BCF	0.56-42 (BCF (28	Cyprinus carpio) (The substance is low-bioaccumulative) days: Concentration: 10 µa/l) = 0.56 - 0.67, 3.3 - 4.2
Kaa	BCF (28 Referenc	days; Concentration: 1 μg/L) = 5.6 - 6.8, 33 - 42 e: CHRIP (2010).
Koc	Potential	100 L/kg (soil) for mobility in soil is moderate.
		(Test species: n/a) -Propagativi ester of 12-(ovirage/methovy)-9-octadecagoic acid
74398-7 BCF	(Test on	-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid ecies: n/a) (The substance is not bioaccumulative)
Koc	Referenc	e: Canad DSL (2007). e: vailable)
LogPow		available)
	3 Resorci	
BCF	3.16 (Tes	t species: n/a) (Calculated by EPISuite v 3.12) tance is not bioaccumulative. e: ECHA (2012).
Кос	10.36 L/k The subs (63.8%) a	rg (Test species: n/a) (20 °C) stance has very low soil sorption. Based on Level 3 Fugacity Modeling, the substance will partition primarily to so and to a lesser extent water (36.1%).
LogPow		e: ECHA (2012). species: n/a) (20 °C) e: ECHA (2012).
67762-9	0-7 Siloxa	nes and Silicones, di-Me, reaction products with silica
BCF	(No data	available) (The substance is not bioaccumulative)
	Deference	e: Canadá DSL CCR (2011).
	Reierenc	(Contd. on page



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U201 2.5-5%

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Кос (No data available) LogPow (No data available)

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

13 Disposal considerations

· Hazardous Waste List

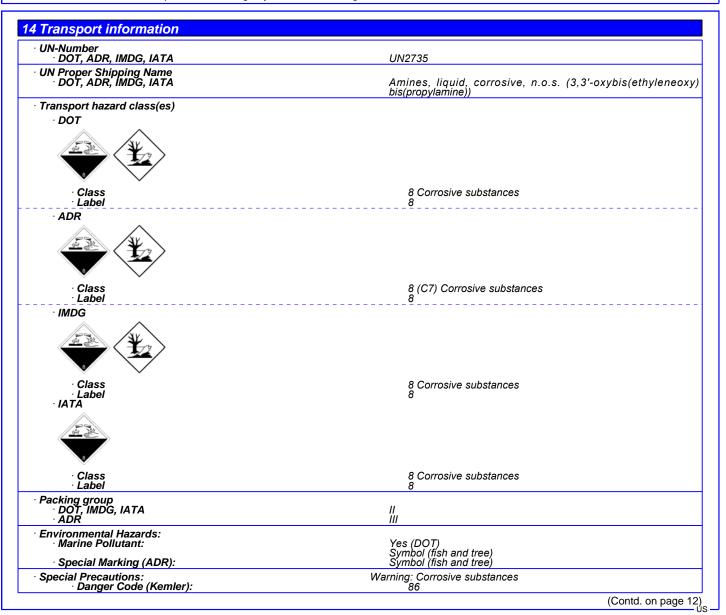
Description: Regulated as a hazardous waste for disposal.

RCRA Waste:

108-46-3 Resorcinol

- Additional Information of the Hazardous Waste List Classification was according to the U.S. Federal Regulation: 40 CFR 261.
- 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.





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· EMS Number: · Segregation Groups	F-A, S-B Alkalis	
• Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		
 Transport/Additional Information: 		
DOT Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L Special marking with the symbol (fish and tree).	
· Remarks:	Special marking with the symbol (fish and tree).	
ADR Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (3,3'- OXYBIS(ETHYLENEOXY)BIS(PROPYLAMINE)), 8, III	

USA Desculation Lists	
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)	
4246-51-9 3,3'-oxybis(ethyleneoxy)bis(propylamine)	A, C 50-60%
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	A, C 20-<25
74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid	A, C 10-209
• 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	
106-89-8 1-chloro-2,3-epoxypropane	
Chemicals Known to Cause Reproductive Toxicity for Females	
None of the ingredients is listed.	
· Chemicals Known to Cause Reproductive Toxicity for Males	
106-89-8 1-chloro-2,3-epoxypropane	
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)	
108-46-3 Resorcinol	
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
• TLV (Threshold Limit Value Established by ACGIH)	
108-46-3 Resorcinol	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	F
None of the ingredients is listed.	
5	
· International Regulation Lists	
Canadian Domestic Substance Listings:	
All ingredients are listed.	
Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
	(Contd. on page



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Canadian Ingredient Disclosure list (limit 1%)	
108-46-3 Resorcinol	
67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	
• 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:

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) CCR: Canadian Categorization Results CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System ChemID (Full Record): US NLM Chemical Information Database (or its Full Record) designed to help search for information by chemical name or structure 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

Information Platform
DOT: US Department of Transportation
DSL: Canada Domestic Substance List
ECHA: European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH
ESIS: European Chemicals Agency's Dissemination (NPCA) Hazardous Materials Identification System
HSDB US Nultional Plant & Coating's Association (NPCA) Hazardous Materials Identification System
HSDB US Nultional Plant & Coating's Association (NPCA) Hazardous Materials Identification 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 Ar Transport Association (IATA)
ICAO-T1: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)
ICGC: International Menitors (St. Be principal international rules for International Carriage of Dangerous Goods by SEA
IMAC: International Menitor Dangeous sport of Dangerous Goods by United Nations (RTDG)
ICGO: Lethal Concentration/Dose, 50 percent
VICLID: UEACCh International Inform Chemical Information Database
Koc: Partition coefficient, soil Organic Carbon to water
ICGO/LDSC Lethal Concentration/Dose, 50 percent
WicSH: US National Institute of Technology and Evaluation, Japan
NLM TOXNET; US National Institute of Cocupational Safety and Health
NITE: National Institute of Technology and Evaluation, Japan
NLM TOXNET; US National Institute of Addicine Toxicology Data Network
OECD: Organisation for Economic Co-operation and Development
OSHA: US Occupational Safety and Health Administration
RCAR: Resource Conservation and Authorisation of Chemicals
RID: the Regulations concerning the International Chemicals States
SARA: US Superfund Amendments and Reauthorization Act
Sarada
SARA: US Superfund Amendments and Reauthorization Act
SARA: US Superfund Amendments and Reauthorization Act
SARA: US Superfund Amendments and Reauthorization Act
SARA: US Depertment of Enering Information Act
SARA: US Superfund Amendments a