

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 8/1/2024 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
	Mixture 10-3044CTA		
1.2. Recommended use and restrictions on us	e		
	Adhesives Not to be used for any p	urpose other than the one the product was designed for	
1.3. Supplier			
Epoxies, Etc. 21 Starline Way Cranston, RI 02921 USA T 401-946-5564 www.epoxies.com			
1.4. Emergency telephone number			
Emergency number :	Emergency number : VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585		
2.1. Classification of the substance or mixture GHS US classification Acute toxicity (oral) Category 4	н302	Harmful if swallowed	
Skin corrosion/irritation Category 1A Serious eye damage/eye irritation Category 1 Skin sensitization, Category 1 Germ cell mutagenicity Category 2 Reproductive toxicity Category 2 Specific target organ toxicity (repeated exposure) Category	H314 H318 H317 H341 H361 gory 2 H373	Causes severe skin burns and eye damage Causes serious eye damage May cause an allergic skin reaction Suspected of causing genetic defects Suspected of damaging fertility or the unborn child May cause damage to organs through prolonged or repeated exposure	
Hazardous to the aquatic environment – Chronic Hazard Full text of H statements : see section 16	d Category 3 H412	Harmful to aquatic life with long lasting effects	
2.2. GHS Label elements, including precaution	nary statements		
GHS US labeling			
Hazard pictograms (GHS US) :			
o	H317 - May cause an all H318 - Causes serious e H341 - Suspected of cau	kin burns and eye damage ergic skin reaction eye damage	

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Precautionary statements (GHS US)	 H373 - May cause damage to organs through prolonged or repeated exposure H412 - Harmful to aquatic life with long lasting effects P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing must not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P302+P352 - If on skin: Wash with plenty of water. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P333 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - If exposed or concerned: Get medical advice/attention. P310 - Immediately call a poison center or doctor. P314 - Get medical advice/attention if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P334+P313 - If skin irritation or rash occurs: Get medical advice/attention. P334+P313 - If skin irritation or rash occurs: Get medical advice/attention. P334+P313 - If skin irritation or rash occurs: Get medical advice/attention. P334+P313 - If skin irritation or rash occurs: Get medical advice/attention. P334+P313 -
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2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Harmful dust may be released during cutting, milling or grinding process.

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Phenol	CAS-No.: 108-95-2	5 – 10	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Muta. 2, H341 STOT RE 2, H373
Triethylenetetramine	CAS-No.: 112-24-3	< 10	Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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Name	Product identifier	%	GHS US classification
Accelerating agent	CAS-No.: 100-51-6	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
Formaldehyde, polymer with benzenamine, hydrogenated	CAS-No.: 135108-88- 2	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1C, H314 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
2,4,6-tris(dimethylaminomethyl)phenol	CAS-No.: 90-72-2	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Benzoic acid, 2-hydroxy-	CAS-No.: 69-72-7	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 STOT SE 1, H370 STOT RE 2, H373 Aquatic Acute 3, H402

Comments

: Components not listed are either non-hazardous or are below reportable limits.

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Call a physician immediately.		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.		
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. 		
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.		
4.2. Most important symptoms and effects (acute and delayed)			
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.		
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.		
Symptoms/effects after eye contact	: Serious damage to eyes.		
Symptoms/effects after ingestion	: Burns.		
4.3. Immediate medical attention and special treatment, if necessary			

Treat symptomatically.

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SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.		
5.2. Specific hazards arising from the chemical			
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. No direct explosion hazard. Toxic fumes may be released. 		
5.3. Special protective equipment and precautions for fire-fighters			
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective	equipment and emergency procedures		
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.		
6.1.1. For non-emergency personnel			
Protective equipment Emergency procedures	 Wear recommended personal protective equipment. Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. 		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for contain	nment and cleaning up		

For containment Methods for cleaning up Other information	 Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk. Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

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Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 		
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures	: Keep in a cool, well-ventilated place away from heat.		

:	Keep in a cool, well-ventilated place away from heat.
	Store looked up

Storage conditions	
Packaging materials	

- : Store locked up.
- : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phenol (108-95-2)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Phenol	
ACGIH OEL TWA	5 ppm	
Remark (ACGIH)	TLV® Basis: URT irr; lung dam; CNS impair. Notations: Skin; A4 (Not classifiable as a Human Carcinogen); BEI	
Regulatory reference	ACGIH 2024	
USA - ACGIH - Biological Exposure Indices		
Local name	Phenol	
BEI	250 mg/g Kreatinin Parameter: Phenol - Medium: urine - Sampling time: End of shift - Notations: B, Ns	
Regulatory reference	ACGIH 2024	
USA - OSHA - Occupational Exposure Limits		
Local name	Phenol	
OSHA PEL TWA	19 mg/m³	
	5 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
8.2. Appropriate engineering controls		

Appropriate engineering controls Environmental exposure controls

: Ensure good ventilation of the work station. : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's information. Gloves must be replaced after each use and whenever signs of wear or perforation appear

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Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



9.1. Information on basic physical and c	hemical properties
Physical state Color	 Liquid Mixture contains one or more component(s) which have the following colour(s): Light yellow Pure substance: colourless to white On exposure to air: rose to brown Unpurified: rose to brown Colourless to yellow Colourless Colourless to light yellow Colourless to white Or exposure to air: light brown White
Odor	 There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Amine-like odour Sweet odour Aromatic odour Irritating/pungent odour Ammonia odour Fruity odour Mild odour Odourless
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity (dermal) :	Harmful if swallowed. Not classified Not classified
10-3044CTA	
ATE US (oral)	1327.394 mg/kg body weight
2,4,6-tris(dimethylaminomethyl)phenol (90-72	2-2)
LD50 oral rat	2169 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	1000 mg/kg
LD50 dermal rat	1280 mg/kg
LD50 dermal	1280 mg/kg
ATE US (oral)	1000 mg/kg body weight
ATE US (dermal)	1280 mg/kg body weight
Phenol (108-95-2)	
LD50 oral rat	650 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Aqueous solution, Oral, 14 day(s))
LD50 oral	400 mg/kg
LD50 dermal rat	660 mg/kg (Equivalent or similar to OECD 402, 24 h, Rat, Female, Experimental value, Dermal, 7 day(s))
LD50 dermal	536 mg/kg

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Phenol (108-95-2)	
LC50 Inhalation - Rat	> 0.9 mg/l air (Equivalent or similar to OECD 403, 8 h, Rat, Female, Experimental value, Inhalation (aerosol), 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	1.27 mg/l Source: ECHA
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	536 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	1.27 mg/l/4h
Triethylenetetramine (112-24-3)	
LD50 oral rat	1716 mg/kg body weight (BASF test, Rat, Experimental value, Oral)
LD50 oral	2500 mg/kg
LD50 dermal rabbit	1465 mg/kg body weight (BASF test, Rabbit, Experimental value, Dermal)
LD50 dermal	550 mg/kg
ATE US (oral)	1716 mg/kg body weight
ATE US (dermal)	550 mg/kg body weight
Accelerating agent (100-51-6)	
LD50 oral rat	1620 mg/kg bw/day (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 oral	1200 mg/kg
LD50 dermal rat	2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg body weight (EPA OTS 798.1100, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal	2000 mg/kg
LC50 Inhalation - Rat	> 4.18 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (mist), 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	4.178 mg/l/4h
LC50 Inhalation - Rat (Vapours)	> 4.178 mg/l
ATE US (oral)	1200 mg/kg body weight
ATE US (dermal)	2000 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	4.178 mg/l/4h
Formaldehyde, polymer with benzena	mine, hydrogenated (135108-88-2)
LD50 dermal rabbit	> 1000 mg/kg body weight Animal: rabbit, Guideline: other:40CFR Part 158 Series 81-2, EPA Pesticide Assessment Guidelines. F 1984
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight

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D650 oral rat 891 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 49(s)) L050 oral 981 mg/kg L050 dermal rat > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxichy, 24 h, Rat, Male / female, Experimental value, Dermal, 14 dg/s(s) L050 dermal rabbit > 10000 mg/kg Scure: International Uniform Chemical. Information Database L050 dermal rabbit > 0 000 mg/kg Scure: International Uniform Chemical. Information Database L050 dermal 2500 mg/kg body weight ATE US (dermal) 2500 mg/kg body weight ATE US (dermal) 0.5 mg/kf ATE US (dermal) 0.5 mg/kf Sin coroson/mitation : Causes severs skin burns. 2.4.6-trist(dimethylaminomethyl)phenol (90-72-7) pH pH No data available in the literature Triethylenetetramine (112-24-3) pH pH No data available in the literature Benzoic acid, 2-hydroxy- (69-72-7) pH pH No data available in the literature Stous eye damoge/mitation : Causes serios eye damoge. 2.4.6-trist(dimethylaminomethyl)phenol (90-72-2) pH pH No data available in the literature Stous eye damoge/mitation : Causes serios eye damoge. 2.4.6-trist(dimethylaminomethyl)phenol (90-72-2) pH pH No data available in	Benzoic acid, 2-hydroxy- (69-72-7)		
LD50 dermal rat > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal. 14 day(s)) LD50 dermal rabbit > 10000 mg/kg Source: International Uniform Chemical. Information Database LD50 dermal rabbit > 0.9 mg/l (1 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) ATE US (ora) 891 mg/kg body weight ATE US (dust, mist) 0.5 mg/l (1 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) ATE US (dust, mist) 0.5 mg/l (1 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) ATE US (dust, mist) 0.5 mg/l (1 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) ATE US (dust, mist) 0.5 mg/l (1 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) ATE US (dust, mist) 0.5 mg/l (1 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) ATE US (dust, mist) 0.5 mg/l (1 h, Rat, Male, Experimental value, Experimater, Experimental value, Ex	LD50 oral rat		
Exportmental value, Dermal, 14 day(s)) LD50 dermal rabbit > 10000 mg/kg Source; international Uniform Chemical, Information Database LD50 dermal rabbit > 0.5 mg/l (h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) ATE US (dermal) 891 mg/kg body weight ATE US (dust, mist) 0.5 mg/l/h Skin corrosion/irritation : Causes severe skin burns. 2.4.6-trist(dimethylamiomethyl)phenol (90-72-) pH 10 (1% %) Phenol (108-95-2) pH No data available in the literature Triethylenetetramine (112-24-3) pH No data available in the literature Benzoic acid, 2-hydroxy- (68-72-7) pH No data available in the literature Benzoic acid, 2-hydroxy- (68-72-7) pH No data available in the literature Sortous eye damage/irritation : Causes serious eye damage. 2.4.6-trist(dimethylamiomethyl)phenol (00-72-2) pH No data available in the literature Sortous eye damage/irritation : Causes serious eye damage. 2.4.6-trist(dimethylamiomethyl)phenol (00-72-2) pH pH No data available in the literature	LD50 oral	891 mg/kg	
L050 dermal 2500 mg/kg L050 dermal 2500 mg/kg L050 lonhalation - Rat > 0.9 mg/l (1 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) ATE US (orral) 891 mg/kg body weight ATE US (dermal) 2500 mg/kg body weight ATE US (dust, mist) 0.5 mg/k4 Sin corrosion/initiation : Causes serve skin burns. 2,4,6-trist(dimethylaminomethyl)phenol (90-72-2) PH pH 10 (1 %, 20 °C) Accelerating agent (100-51-6) PH pH No data available in the literature Benzoic acid, 2-hydroxy- (69-72-7) PH pH No data available in the literature Serious avoid adage/million : Causes serious avoid admage. 2,4,6-trist(dimethylaminomethyl)phenol (90-72-2) PH pH No data available in the literature Serious avoid amage/million : Causes serious avoid admage. 2,4,6-trist(dimethylaminomethyl)phenol (90-72-2) PH pH No data available in the literature Serious avoid amage/million : Causes serious avoid admage. 2,4,6-trist(dimethylaminomethyllophenol (90-72-2) PH	LD50 dermal rat		
LCS0 Inhalation - Rat > 0.9 mg ¹ (1 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) ATE US (oral) 891 mg/kg body weight ATE US (dust, mist) 0.5 mg/i/4h Skin corrosion/intiation : Causes severe skin burns. 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) pH 11 (10 %) Phenol (108-95-2) pH No data available in the literature Triethylenetetramine (112-24-3) pH 10 (1 %, 20 °C) Accelerating agent (100-51-6) pH No data available in the literature Benzoic acid, 2-hydroxy- (69-72-7) pH No data available in the literature Serious eye damage/irritation : Causes serious eye damage. 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) pH No data available in the literature Benzoic acid, 2-hydroxy- (69-72-7) pH No data available in the literature Serious eye damage/irritation : Causes serious eye damage. 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) pH No data available in the literature Phenol (108-95-2) Phenol (108-95-2) pH No data available in the literature Triethylenetetramine (112-24-3) Ph pH No data available in the literature Phenol (108-95-2) </td <td>LD50 dermal rabbit</td> <td>> 10000 mg/kg Source: International Uniform ChemicaL Information Database</td>	LD50 dermal rabbit	> 10000 mg/kg Source: International Uniform ChemicaL Information Database	
ATE US (oral) 891 mg/kg body weight ATE US (dermal) 2500 mg/kg body weight ATE US (dust, mist) 0.5 mg/t/4h Skin corrosion/iritiation : Causes severe skin burns. 2,4,6-trist(dimethylaminomethyl)phenol (90-72-2) pH pH 11 (10 %) Phenol (108-95-2) pH pH No data available in the literature Triethylenetetramine (112-24-3) pH pH 10 (1 %, 20 °C) Accelerating agent (100-51-6) pH pH No data available in the literature Benzoica acid, 2-hydroxy- (69-72-7) pH pH No data available in the literature Serious eye damage/irritation : Causes serious eye damage. 2,4,6-trist(dimethylaminomethyl)phenol (90-72-2) pH pH No data available in the literature Serious eye damage/irritation : Causes serious eye damage. 2,4,6-trist(dimethylaminomethyl)phenol (90-72-2) pH pH No data available in the literature Triethylenetetramine (112-24-3) pH pH No data available in the literature Triethylenetetramine (112-24-3) pH pH No data available in the literature Benzoic acid, 2-hydroxy- (69-72-7) pH pH No data avai	LD50 dermal	2500 mg/kg	
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ATE US (dust, mist) 0.5 mgl/4h Skin corrosion/irritation : Causes severe skin burns. 2.4,6-tris(dimethylaminomethyl)phenol (90-72-2) pH 11 (10 %) Phenol (108-95-2) pH No data available in the literature Triethylenetetramine (112-24-3) pH 10 (1 %, 20 °C) Accelerating agent (100-51-6) pH No data available in the literature Benzoic acid, 2-hydroxy- (69-72-7) pH No data available in the literature Serious eye damage/irritation : Causes serious eye damage. 2.4,6-tris(dimethylaminomethyl)phenol (90-72-2) pH No data available in the literature Serious eye damage/irritation : Causes serious eye damage. 2.4,6-tris(dimethylaminomethyl)phenol (90-72-2) pH 11 (10 %) Phenol (108-95-2) pH 10 (1 %, 20 °C) Accelerating agent (100-51-6) pH 10 (1 %, 20 °C) Accelerating agent (100-51-6) pH No data available in the literature Benzoic acid, 2-hydroxy- (69-72-7) pH No data available in the literature Benzoic acid,	ATE US (oral)	891 mg/kg body weight	
Skin corrosion/irritation : Causes severe skin burns. 2.4,6-tris(dimethylaminomethyl)phenol (90-72-2) pH 11 (10 %) Phenol (108-95-2) pH No data available in the literature Triethylenetetramine (112-24-3) pH 10 (1 %, 20 °C) Accelerating agent (100-51-6) pH No data available in the literature Benzoic acid, 2-hydroxy- (69-72-7) pH No data available in the literature Serious eye damage/irritation : Causes serious eye damage. 2.4,6-tris(dimethylaminomethyl)phenol (90-72-7) pH No data available in the literature Serious eye damage/irritation : Causes serious eye damage. 2.4,6-tris(dimethylaminomethyl)phenol (90-72-7) pH 11 (10 %) Phenol (108-95-2) pH 10 (1 %, 20 °C) Accelerating agent (100-51-6) pH No data available in the literature Triethylenetetramine (112-24-3) pH No data available in the literature Benzoic acid, 2-hydroxy- (69-72-7) pH No data available in the literature Benzoic acid, 2-hydroxy- (69-72-7) pH<	ATE US (dermal)	2500 mg/kg body weight	
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pH No data available in the literature Respiratory or skin sensitization : May cause an allergic skin reaction. Germ cell mutagenicity : Suspected of causing genetic defects. Carcinogenicity : Not classified			
Respiratory or skin sensitization : May cause an allergic skin reaction. Germ cell mutagenicity : Suspected of causing genetic defects. Carcinogenicity : Not classified Phenol (108-95-2) Image: State Sta		No data available in the literature	
Germ cell mutagenicity : Suspected of causing genetic defects. Carcinogenicity : Not classified Phenol (108-95-2)	Respiratory or skin sensitization :	May cause an allergic skin reaction.	
Carcinogenicity : Not classified Phenol (108-95-2)			
IARC group 3 - Not classifiable			
	IARC group	3 - Not classifiable	

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Reproductive toxicity STOT-single exposure	Suspected of damaging fertility or the unborn child.Not classified
Benzoic acid, 2-hydroxy- (69-72-7)	
STOT-single exposure	Causes damage to organs.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Phenol (108-95-2)	
LOAEL (dermal,rat/rabbit,90 days)	260 mg/kg body weight Animal: rabbit
NOAEL (dermal,rat/rabbit,90 days)	130 mg/kg body weight Animal: rabbit
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Accelerating agent (100-51-6)	
NOAEL (oral,rat,90 days)	400 mg/kg body weight Animal: rat, Guideline: other:OECD Guideline 451 (Carcinogenicity Studies)
Formaldehyde, polymer with benzenami	ne, hydrogenated (135108-88-2)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Benzoic acid, 2-hydroxy- (69-72-7)	
NOAEL (oral,rat,90 days)	50 mg/kg body weight Animal: rat
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard /iscosity, kinematic	: Not classified : No data available
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)
Viscosity, kinematic	No data available in the literature
Phenol (108-95-2)	
Viscosity, kinematic	No data available in the literature
Triethylenetetramine (112-24-3)	
Viscosity, kinematic	No data available in the literature
Accelerating agent (100-51-6)	
Viscosity, kinematic	No data available in the literature
Benzoic acid, 2-hydroxy- (69-72-7)	
Viscosity, kinematic	Not applicable (solid)
Symptoms/effects after inhalation	 Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	•

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Harmful to aquatic life with long lasting effects.

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2,4,6-tris(dimethylaminomethyl)p	henol (90-72-2)
LC50 - Fish [1]	175 mg/l (APHA, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value, Nominal concentration)
LC50 - Fish [2]	180 – 240 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 72h - Algae [1]	84 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	34.812 mg/l Source: ECOSAR
ErC50 algae	84 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
Phenol (108-95-2)	
LC50 - Fish [1]	8.9 mg/l (US EPA, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	3.1 mg/l (US EPA, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	180 mg/l Test organisms (species): Dunaliella tertiolecta
EC50 72h - Algae [2]	217.6 mg/l Test organisms (species): Dunaliella tertiolecta
EC50 96h - Algae [1]	61 mg/l (US EPA, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers)
NOEC (chronic)	0.16 mg/l Test organisms (species): Daphnia magna Duration: '16 d'
NOEC chronic fish	0.077 mg/l
Triethylenetetramine (112-24-3)	
LC50 - Fish [1]	495 mg/l (96 h, Pimephales promelas, Fresh water, Literature study)
EC50 - Crustacea [1]	31.1 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Literature study)
ErC50 algae	27 mg/l
NOEC chronic algae	0.468 mg/l
Accelerating agent (100-51-6)	
LC50 - Fish [1]	460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	770 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	500 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC (chronic)	51 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	51 mg/l
Formaldehyde, polymer with ben	zenamine, hydrogenated (135108-88-2)
LC50 - Fish [1]	63 mg/l Test organisms (species): Poecilia reticulata

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Formaldehyde, polymer with benzenamine, h	ydrogenated (1.35108-88-2)	
EC50 72h - Algae [1]	43.94 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
Benzoic acid, 2-hydroxy- (69-72-7)		
LC50 - Fish [1]	1370 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Read-across, Measured concentration)	
EC50 - Crustacea [1]	870 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Experimenta value)	
ErC50 algae	65 mg/l	
NOEC (chronic)	10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic algae	31 mg/l	
12.2. Persistence and degradability		
10-3044CTA		
Persistence and degradability	Not rapidly degradable	
2,4,6-tris(dimethylaminomethyl)phenol (90-72	2-2)	
Persistence and degradability	Not readily biodegradable in water.	
Phenol (108-95-2)	·	
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water, Readily biodegradable in water in anaerobic conditions.	
Biochemical oxygen demand (BOD)	1.7 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.3 g O ₂ /g substance	
ThOD	2.4 g O ₂ /g substance	
Triethylenetetramine (112-24-3)		
Persistence and degradability	Not readily biodegradable in water.	
Accelerating agent (100-51-6)		
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.	
Formaldehyde, polymer with benzenamine, h	ydrogenated (135108-88-2)	
Persistence and degradability	Not rapidly degradable	
Benzoic acid, 2-hydroxy- (69-72-7)		
Persistence and degradability	Readily biodegradable in water.	
12.3. Bioaccumulative potential		
2,4,6-tris(dimethylaminomethyl)phenol (90-72	2-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.66 (Experimental value, EPA OPPTS 830.7550: Partition Coefficient (n-octanol/water), Shake Flask Method, 21.5 °C)	
Bioaccumulative potential	Not bioaccumulative.	

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Phenol (108-95-2)		
BCF - Fish [1]	18 (OECD 305: Bioconcentration: Flow-Through Fish Test, 3 h, Danio rerio, Flow-through system, Fresh water, Experimental value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	1.5 (Experimental value, Equivalent or similar to OECD 117, 30 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Triethylenetetramine (112-24-3)		
Partition coefficient n-octanol/water (Log Pow)	-2.65 (Estimated value, KOWWIN)	
Bioaccumulative potential	Not bioaccumulative.	
Accelerating agent (100-51-6)		
BCF - Fish [1]	1.4 l/kg (BCFBAF v3.01, Estimated value)	
Partition coefficient n-octanol/water (Log Pow)	1 – 1.1 (Experimental value, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Benzoic acid, 2-hydroxy- (69-72-7)		
Partition coefficient n-octanol/water (Log Pow)	2.3 (Experimental value, Equivalent or similar to OECD 117, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

12.4. Mobility in soil

2.4.6 trio/dimethylominemethyl/phonel (00.72.2)		
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.32 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	
Phenol (108-95-2)		
Mobility in soil	14 – 73 Source: ECHA	
Surface tension	71.3 mN/m (20 °C, 0.118 %)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.2 – 1.9 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	
Triethylenetetramine (112-24-3)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.885 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	
Accelerating agent (100-51-6)		
Surface tension	39 mN/m (20 °C)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.1 – 1.3 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	

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Benzoic acid, 2-hydroxy- (69-72-7)	
Mobility in soil	23.96 Source: Quantitative Structure Activity Relation
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.5 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	ΙΑΤΑ
14.1. UN number	'	-	-
UN3267	UN3267	3267	3267
14.2. Proper Shipping Name			-
Corrosive liquid, basic, organic, n.o.s. (Triethylenetetramine ; Phenol)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Triethylenetetramine ; Phenol)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Triethylenetetramine ; Phenol)	Corrosive liquid, basic, organic, n.o.s. (Triethylenetetramine ; Phenol)
14.3. Transport hazard class(es	5)		
8	8	8	8
CORROSIVE 8	B B	B	B
14.4. Packing group			-
I	I	I	I
14.5. Environmental hazards	•	·	•
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available	ble	-	•

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14.6. Special precautions for user

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DOT UN-No.(DOT)	: UN3267
DOT Special Provisions (49 CFR 172.102)	 B10 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks, and DOT 57 portable tanks are not authorized. T14 - 6 6 mm Prohibited 178.275(g)(3). TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49	: 201 : 243 : 0.5 L
CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 2.5 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters",52 - Stow "separated from" acids
TDG UN-No. (TDG) TDG Special Provisions	 : UN3267 : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or
ERAP Index	(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. : 3000
Explosive Limit and Limited Quantity Index	: 0
Excepted quantities (TDG) Passenger Carrying Road Vehicle or Passenger	: E0 : 0.5 L
Carrying Railway Vehicle Index Emergency Response Guide (ERG) Number	: 153

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IMDG	
Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P001
Tank instructions (IMDG)	: T14
Tank special provisions (IMDG)	: TP2, TP27
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SGG18, SG35
Properties and observations (IMDG)	: Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.
ΙΑΤΑ	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden

PCA Limited quantities (IATA):ForbidderPCA limited quantity max net quantity (IATA):ForbidderPCA packing instructions (IATA):850PCA max net quantity (IATA):0.5LCAO packing instructions (IATA):854CAO max net quantity (IATA):2.5LSpecial provision (IATA):A3, A803ERG code (IATA):8L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986	
and 40 CFR Part 372.	

Phenol CAS-No. 108-95-2	5 – 10%
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Phenol (108-95-2)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form

15.2. International regulations

CANADA

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Listed on the Canadian DSL (Domestic Substances List)	

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Phenol (108-95-2)

Listed on the Canadian DSL (Domestic Substances List)

Triethylenetetramine (112-24-3)

Listed on the Canadian DSL (Domestic Substances List)

Accelerating agent (100-51-6)

Listed on the Canadian DSL (Domestic Substances List)

Formaldehyde, polymer with benzenamine, hydrogenated (135108-88-2)

Listed on the Canadian DSL (Domestic Substances List)

Benzoic acid, 2-hydroxy- (69-72-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Phenol (108-95-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Triethylenetetramine (112-24-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Accelerating agent (100-51-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Benzoic acid, 2-hydroxy- (69-72-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Phenol(108-95-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Triethylenetetramine(112-24-3)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

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Component	State or local regulations
Accelerating agent(100-51-6)	U.S Massachusetts - Right To Know List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Full text of hazard classes and H-statements	
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.