

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Version: 1.2

Issue date: 10/01/2021 Revision date: 12/21/2023 Supersedes: 10/01/2021

SECTION 1: Identification

Identification

Product form Mixture Product name EP1121 Clear B

Recommended use and restrictions on use

: Epoxy hardener Recommended use

: Product for industrial use only Restrictions on use

1.3. Supplier

ResinLab, LLC

N109 W13300 Ellsworth Drive

Germantown, WI 53022 - United States

T 1-877-259-1669

msds@resinlab.com - www.resinlab.com

Emergency telephone number

Emergency number : CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 1B H314 Causes severe skin burns and eye damage Skin sensitization, Category 1 H317 May cause an allergic skin reaction Reproductive toxicity Category 1B H360 May damage fertility or the unborn child

Full text of H statements: see section 16

GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)







Signal word (GHS US) Danger

Hazard statements (GHS US) H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction H360 - May damage fertility or the unborn child

P201 - Obtain special instructions before use. Precautionary statements (GHS US) 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.

P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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+P338 - 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.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage. P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation.

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
fatty acids, C18-unsatd., dimers, reaction products with 1-piperazineethanamine and tall oil	(CAS-No.) 206565-89-1	30 – 50
Poly(oxypropylene)diamine	(CAS-No.) 9046-10-0	10 – 30
4-Nonylphenol, branched	(CAS-No.) 84852-15-3	10 – 30
4-tert-butylphenol	(CAS-No.) 98-54-4	5 – 10
Diethylenetriamine	(CAS-No.) 111-40-0	1 – 5
2,4,6-tris(dimethylaminomethyl)phenol	(CAS-No.) 90-72-2	1 – 5
Bisphenol A	(CAS-No.) 80-05-7	1 – 5

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

First-aid measures after inhalation

- : IF exposed or concerned: Get medical advice/attention.
- : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a doctor.
- First-aid measures after skin contact
- : Rinse immediately with plenty of water for 15 minutes. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse. Rinse skin with water/shower. Call a physician immediately.
- First-aid measures after eye contact
- : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. Rinse cautiously with water for several minutes. Call a physician immediately.
- First-aid measures after ingestion
- Rinse mouth out with water. Do not induce vomiting. If you feel unwell, seek medical advice. Rinse mouth. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

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.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

- : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Do not use water jet to extinguish.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire

: Nitrogen oxides,Carbon dioxide,Carbon monoxide,For further information, refer to section 10 : "Stability and Reactivity"

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: 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

6.1.1. For non-emergency personnel

Emergency procedures

: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

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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".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : 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 : Use only with adequate ventilation. Use caution when heating, properly ventilate area. Store

and use with adequate ventilation.

Precautions for safe handling : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the

workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin

and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene measures : Separate working clothes from town clothes. Launder separately. 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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

4-Nonylphenol, branched (84852-15-3)				
Not applicable	Not applicable			
Poly(oxypropylene	Poly(oxypropylene)diamine (9046-10-0)			
Not applicable	Not applicable			
Diethylenetriamine (111-40-0)				
ACGIH	Local name	Diethylenetriamine		
ACGIH	ACGIH OEL TWA	1 ppm		
ACGIH	Remark (ACGIH)	TLV® Basis: URT & eye irr. Notations: Skin		
ACGIH	Regulatory reference	ACGIH 2023		

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

Not applicable

Bisphenol A (80-05-7)

Not applicable

fatty acids, C18-unsatd., dimers, reaction products with 1-piperazineethanamine and tall oil (206565-89-1)

Not applicable

4-tert-butylphenol (98-54-4)

Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the

workplace

Environmental exposure controls : Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses with side shields

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation, wear respiratory protection.

Personal protective equipment symbol(s):







SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Amber Odor : Ammonia-like Odor threshold No data available рΗ No data available Melting point Not applicable Freezing point : No data available **Boiling point** No data available

Flash point : > 93 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability : Not applicable. Vapor pressure : No data available Relative vapor density at 20°C : No data available Relative density : No data available Density : 0.97 g/cm³

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, dynamic : No data available **Explosion limits** No data available Explosive properties : No data available Oxidizing properties : No data available VOC content No data available

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.

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Conditions to avoid

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

Incompatible materials

Bases (Alkalis).

Hazardous decomposition products 10.6.

ammonia. Carbon oxides (CO, CO2). Nitrogen oxides. ketones. Aldehydes.

SECTION 11: Toxicological information

Information on toxicological effects

: Not classified Acute toxicity (oral) Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation)

4-Nonylphenol, branched (84852-15-3)		
LD50 oral rat	1412 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 14 day(s))	
ATE US (oral)	1412 mg/kg body weight	
Poly(oxypropylene)diamine (9046-10-0)		
LD50 oral rat	2627 mg/kg	
LD50 dermal rat	2980 mg/kg	
LD50 dermal rabbit	2980 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal)	
LC50 Inhalation - Rat	> 0.74 mg/l	
ATE US (oral)	2627 mg/kg body weight	
ATE US (dermal)	2980 mg/kg body weight	
Diethylenetriamine (111-40-0)		
LD50 oral rat	1553 mg/kg body weight (Rat, Male, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	1045 mg/kg body weight (Rabbit, Experimental value, Dermal)	
LC50 Inhalation - Rat [ppm]	16.4 ppm/4h	
ATE US (oral)	1553 mg/kg body weight	
ATE US (dermal)	1045 mg/kg body weight	
ATE US (gases)	16.4 ppmV/4h	
ATE US (vapors)	0.5 mg/l/4h	
ATE US (dust, mist)	0.05 mg/l/4h	
2,4,6-tris(dimethylaminomethyl)phenol (90	0-72-2)	
LD50 oral rat	2169 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
ATE US (oral)	2169 mg/kg body weight	
Bisphenol A (80-05-7)		
LD50 oral rat	2000 – 5000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	3000 mg/kg body weight (Rabbit, Experimental value, Dermal)	
ATE US (oral)	2000 mg/kg body weight	
ATE US (dermal)	3000 mg/kg body weight	
4-tert-butylphenol (98-54-4)		
LD50 oral rat	> 2000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	> 16000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat	> 5.6 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))	
Skin corrosion/irritation	: Causes severe skin burns.	
Serious eye damage/irritation	: Assumed to cause serious eye damage	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	

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Reproductive toxicity	· : M	av damad	ae fertilit	v or the unborn child.

STOT-single exposure : Not classified

Diethylenetriamine (111-40-0)	
STOT-single exposure	May cause respiratory irritation.
Bisphenol A (80-05-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
4-Nonylphenol, branched (84852-15-3)	
LOAEL (oral,rat,90 days)	400 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (oral,rat,90 days)	100 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Diethylenetriamine (111-40-0)	
LOAEL (oral,rat,90 days)	530 – 620 mg/kg body weight Animal: rat, Guideline: other:
NOAEL (oral,rat,90 days)	70 – 80 mg/kg body weight Animal: rat, Guideline: other:
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Bisphenol A (80-05-7)	
LOAEL (oral,rat,90 days)	600 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
4-tert-butylphenol (98-54-4)	
NOAEL (oral,rat,90 days)	200 mg/kg body weight Animal: rat, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents), Guideline: other:
Aspiration hazard	: Not classified
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.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general	: Very toxic to aquatic life with long lasting effects.
Ecology - water	: Very toxic to aquatic life with long lasting effects.
4-Nonylphenol, branched (84852-15-3)	
EC50 - Crustacea [1]	84 μg/l (ASTM E729-88, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Lethal)
NOEC chronic fish	0.006 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '91 d'
Poly(oxypropylene)diamine (9046-10-0)	
LC50 - Fish [1]	772.14 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Static system, Salt water, Experimental value, GLP)
EC50 - Crustacea [1]	80 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	15 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC (chronic)	7.64 mg/l Test organisms (species):
Diethylenetriamine (111-40-0)	
LC50 - Fish [1]	430 mg/l (EU Method C.1, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	64.6 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

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EC50 - Crustacea [2] 16 mg/l Test organisms (species): Daphnia magna ErC50 algae 1164 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, S system, Fresh water, Experimental value, GLP) LOEC (chronic) 11.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 5.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish > 10 mg/l Test organisms (species): Gasterosteus aculeatus Duration: '28 d' 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) LC50 - Fish [1] 175 mg/l (APHA, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value, Nominal concentration)
system, Fresh water, Experimental value, GLP) LOEC (chronic) NOEC (chronic) NOEC (chronic) 11.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish > 10 mg/l Test organisms (species): Gasterosteus aculeatus Duration: '28 d' 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) LC50 - Fish [1] 175 mg/l (APHA, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value,
NOEC (chronic) NOEC chronic fish 5.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d' > 10 mg/l Test organisms (species): Gasterosteus aculeatus Duration: '28 d' 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) LC50 - Fish [1] 175 mg/l (APHA, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value,
NOEC chronic fish > 10 mg/l Test organisms (species): Gasterosteus aculeatus Duration: '28 d' 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) LC50 - Fish [1] 175 mg/l (APHA, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value,
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) LC50 - Fish [1] 175 mg/l (APHA, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value,
LC50 - Fish [1] 175 mg/l (APHA, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value,
EC50 - Crustacea [1] > 100 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2] 180 – 240 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
ErC50 algae 84 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Stat system, Fresh water, Experimental value, GLP)
Bisphenol A (80-05-7)
LC50 - Fish [1] 4.6 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1] 10.2 mg/l (ASTM E-35.21, 48 h, Daphnia magna, Static system, Fresh water, Experimen value, Lethal)
LOEC (chronic) 3.6 mg/l Test organisms (species): other:Rotifer (Brachionus calyciflorus) Duration: '48 h
fatty acids, C18-unsatd., dimers, reaction products with 1-piperazineethanamine and tall oil (206565-89-1)
LC50 - Fish [1] 0.66 mg/l Test organisms (species): other:
EC50 - Other aquatic organisms [1] 0.13 mg/l Test organisms (species): other aquatic crustacea:
4-tert-butylphenol (98-54-4)
LC50 - Fish [1] > 1 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Semi-static sy Fresh water, Similar product, Nominal concentration)
EC50 - Crustacea [1] 4.8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Stat system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae 14 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, system, Fresh water, Experimental value, Nominal concentration)
LOEC (chronic) 2.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic) 0.73 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2.2. Persistence and degradability
4-Nonylphenol, branched (84852-15-3)
Persistence and degradability Not readily biodegradable in water.
Poly(oxypropylene)diamine (9046-10-0)
Persistence and degradability Not readily biodegradable in water.
Diethylenetriamine (111-40-0)
Persistence and degradability Readily biodegradable in the soil. Readily biodegradable in water.
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

4-tert-butylphenol (98-54-4)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.77 g O₂/g substance

Readily biodegradable in the soil. Readily biodegradable in water.

Not readily biodegradable in water.

 $0.036 \text{ g O}_2/\text{g substance}$

2.5 g O₂/g substance

12.3. Bioaccumulative potential

Persistence and degradability

Chemical oxygen demand (COD)

Bisphenol A (80-05-7)Persistence and degradability

ThOD

4-Nonylphenol, branched (84852-15-3)	
BCF - Fish [1]	1200 – 1300 (Equivalent or similar to OECD 305, 16 day(s), Gasterosteus aculeatus, Flow-through system, Salt water, Experimental value, Fresh weight)
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4-Nonylphenol, branched (84852-15-3)	
Partition coefficient n-octanol/water (Log Pow)	5.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23 °C)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
Poly(oxypropylene)diamine (9046-10-0)	
Partition coefficient n-octanol/water (Log Pow)	1.34 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Not bioaccumulative.
Diethylenetriamine (111-40-0)	
BCF - Fish [1]	0.3 – 6.3 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-1.58 (Calculated, 20 °C)
Bioaccumulative potential	Not bioaccumulative.
2,4,6-tris(dimethylaminomethyl)phenol (90-72-	-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.
Bisphenol A (80-05-7)	
BCF - Fish [1]	5.1 – 67 (42 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3.4 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 21.5 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-tert-butylphenol (98-54-4)	
BCF - Fish [1]	20 – 48 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23 °C)
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4-Nonylphenol, branched (84852-15-3)		
Surface tension	38.9 mN/m (20 °C, EU Method A.5: Surface tension)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4 (log Koc, Calculated value)	
Ecology - soil	Low potential for mobility in soil.	
Poly(oxypropylene)diamine (9046-10-0)		
Surface tension	Data waiving	
Ecology - soil	No (test)data on mobility of the substance available.	
Diethylenetriamine (111-40-0)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.4 – 4.6 (log Koc, Other, Experimental value, GLP)	
Ecology - soil	Adsorbs into the soil. Low potential for mobility in soil. Soil contaminant.	
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.	
Bisphenol A (80-05-7)		
Surface tension	No data available (test not performed)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.8 – 2.97 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Experimental value, GLP)	
Ecology - soil	Low potential for adsorption in soil.	
4-tert-butylphenol (98-54-4)		
Surface tension	No data available in the literature	

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4-tert-butylphenol (98-54-4)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.1 (log Koc, QSAR)
Ecology - soil	Low potential for mobility in soil.

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT) : UN3267 Corrosive liquid, basic, organic, n.o.s. (4-Nonylphenol, branched;

Poly(oxypropylene)diamine), 8, III

UN-No.(DOT) : UN3267

Proper Shipping Name (DOT) : Corrosive liquid, basic, organic, n.o.s.

4-Nonylphenol, branched; Poly(oxypropylene)diamine

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : III - Minor Danger Hazard labels (DOT) : 8 - Corrosive



Dangerous for the environment : Yes Marine pollutant Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx)

DOT Special Provisions (49 CFR 172.102)

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672)

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 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

DOT Packaging Exceptions (49 CFR 173.xxx) : 154 DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

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DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters",52 - Stow "separated from" acids

Emergency Response Guide (ERG) Number : 153

Other information : No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea

Transport document description (IMDG) : UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (4-Nonylphenol, branched;

Poly(oxypropylene)diamine), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

UN-No. (IMDG) : 3267

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
4-Nonylphenol, branched; Poly(oxypropylene)diamine

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

Marine pollutant : Yes



Air transport

Transport document description (IATA) : UN 3267 Corrosive liquid, basic, organic, n.o.s. (4-Nonylphenol, branched;

Poly(oxypropylene)diamine), 8, III, ENVIRONMENTALLY HAZARDOUS

UN-No. (IATA) : 3267

Proper Shipping Name (IATA) : Corrosive liquid, basic, organic, n.o.s.

4-Nonylphenol, branched; Poly(oxypropylene)diamine

Class (IATA) : 8 - Corrosives
Packing group (IATA) : III - Low danger

SECTION 15: Regulatory information

4-Nonylphenol, branched (84852-15-3)

15.1. US Federal regulations

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.

4-Nonylphenol, branched	CAS-No. 84852-15-3	10 – 30%
Bisphenol A	CAS-No. 80-05-7	1 – 5%

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 EPA TSCA Regulatory Flag SP - SP - indicates a substance that is identified in a proposed Significant New Use Rule.

Poly(oxypropylene)diamine (9046-10-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Diethylenetriamine (111-40-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Bisphenol A (80-05-7)

Subject to reporting requirements of United States SARA Section 313

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fatter anida 040	4-1		piperazineethanamine and tall oil	/000CECE 00 4\
Tatty acids C18-linsa	ta almers reactioi	1 products with 1-r	Diberazineethanamine and tall oli	(/Unana-89-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag PMN - PMN - indicates a commenced PMN substance.

S - S - indicates a substance that is identified in a final Significant New Use Rule.

4-tert-butylphenol (98-54-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

4-Nonylphenol, branched (84852-15-3)

Listed on the Canadian DSL (Domestic Substances List)

Poly(oxypropylene)diamine (9046-10-0)

Listed on the Canadian DSL (Domestic Substances List)

Diethylenetriamine (111-40-0)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

Bisphenol A (80-05-7)

Listed on the Canadian DSL (Domestic Substances List)

fatty acids, C18-unsatd., dimers, reaction products with 1-piperazineethanamine and tall oil (206565-89-1)

Listed on the Canadian NDSL (Non-Domestic Substances List)

4-tert-butylphenol (98-54-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Contains the following REACH ingredient(s): 4-Nonylphenol, branched (EC 284-325-5, CAS 84852-15-3), Bisphenol A (EC 201-245-8, CAS 80-05-7), 4-tert-butylphenol (EC 202-679-0, CAS 98-54-4)

4-Nonylphenol, branched (84852-15-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Diethylenetriamine (111-40-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Bisphenol A (80-05-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

4-tert-butylphenol (98-54-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

4-Nonylphenol, branched (84852-15-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Poly(oxypropylene)diamine (9046-10-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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Diethylenetriamine (111-40-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Bisphenol A (80-05-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

fatty acids, C18-unsatd., dimers, reaction products with 1-piperazineethanamine and tall oil (206565-89-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

4-tert-butylphenol (98-54-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations



This product can expose you to Bisphenol A (BPA), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Diethylenetriamine(111-40-0)	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
Bisphenol A(80-05-7)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 12/21/2023

Full text of H-phrases:

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H314	Causes severe skin burns and eye damage	
H317	May cause an allergic skin reaction	
H360	May damage fertility or the unborn child	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	

SDS US - ResinLab

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.

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