

Safety Data Sheet
PRO-SET® ADV-273-QC HARDENER

Revision Date:
10 November, 2025

SECTION 1. IDENTIFICATION

Product identifier

Product Identity PRO-SET® ADV-273-QC HARDENER
Other means of identification Not Applicable

Relevant identified uses of the substance or mixture and uses advised against

See Technical Data Sheet.

Details of the supplier of the safety data sheet

Company Name PRO-SET
Gougeon Brothers, Inc.
100 Patterson Ave.
Bay City, MI 48706, U.S.A.

Emergency

24 hour Emergency Telephone No. Transportation
CHEMTREC: 800-424-9300 (U.S.)
703-527-3887 (International)
Non-transportation
Poison Hotline: 800-222-1222

Customer Service: 866-937-8797
www.prosetepoxy.com

SECTION 2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Acute toxicity(oral), category 4;H302	Harmful if swallowed.
Skin corrosion/irritation category 1B;H314	Causes severe skin burns and eye damage.
Serious eye damage / eye irritation, category 1;H318	Causes serious eye damage.
Skin sensitizer category 1;H317	May cause an allergic skin reaction.
Germ cell mutagenicity, category 2;H341	Suspected of causing genetic defects.
Reproductive toxicity, category 2;H361F	Suspected of damaging fertility.

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Specific target organ toxicity, repeated exposure
category 2;H373

Aquatic toxicity (acute), category 1;H400

Aquatic toxicity (chronic), category 2;H411

May cause damage to organs through prolonged or
repeated exposure.

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Label elements



Danger

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

[Prevention]

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, mist, vapors or spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

[Response]

P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.

P302+312 IF ON SKIN: Call a POISON CENTER or doctor, physician if you feel unwell

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P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+312 IF INHALED: Call a poison center or doctor or physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313 IF exposed or concerned: Get medical advice or attention.

P310 Immediately call a POISON CENTER, doctor or physician.

P314 Get Medical advice or attention if you feel unwell.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P333+313 If skin irritation or a rash occurs: Get medical advice or attention.

P362+364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

[Storage]

P405 Store locked up.

[Disposal]

P501 Dispose of contents or container in accordance with local and national regulations.

Other hazards

This product contains PBT/vPvB/vPvM chemicals.

98-54-4	p-tert-Butyl phenol	Endocrine disruptor
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Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol CAS Number: 32610-77-8 Synonyms: Teta, reaction products with phenol / formaldehyde	10 - 30	Not Classified	No data available
Benzyl alcohol CAS Number: 100-51-6 Synonyms: No available information	10 - 30	Acute toxicity(inhalation), category 4;H332 Acute toxicity(oral), category 4;H302 Skin sensitizer category 1B;H317 Serious eye damage / eye irritation, category 2;H319	No data available

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Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Triethylene tetramine CAS Number: 112-24-3 Synonyms: Triethylenetetramine	10 - 30	Acute toxicity(dermal), category 4;H312 Skin corrosion/irritation category 1B;H314 Skin sensitizer category 1;H317 Aquatic toxicity (chronic), category 3;H412	No data available
Fatty acids, c18-unsatd., dimers, reaction product with 1-piperazineethanamine and tall oil fatty acid CAS Number: 206565-89-1 Synonyms: Fatty acids, c18-unsatd., dimers, reaction products with 1-piperazineethanamine and tall oil	10 - 30	Skin corrosion/irritation category 2;H315 Serious eye damage / eye irritation, category 1;H318 Skin sensitizer category 1;H317 Aquatic toxicity (acute), category 1;H400 Aquatic toxicity (chronic), category 1;H410	No data available
Phenol CAS Number: 108-95-2 Synonyms: No available information	3 - 7	Germ cell mutagenicity, category 2;H341 Acute toxicity(inhalation), category 3;H331 Acute toxicity(dermal), category 3;H331 Acute toxicity(oral), category 3;H301 Specific target organ toxicity, repeated exposure category 2;H373 Skin corrosion/irritation category 1B;H314: C ≥ 3 % Skin corrosion/irritation category 2;H315: 1 % ≤ C < 3 % Serious eye damage / eye irritation, category 2;H319: 1 % ≤ C < 3 %	No data available
Silicon dioxide, chemically prepared CAS Number: 112945-52-5 Synonyms: Amorphous, fumed silica	3 - 7	Not Classified	No data available
Formaldehyde polymer with 1,3-benzene dimethanamine and phenol CAS Number: 57214-10-5 Synonyms: Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	3 - 7		No data available
1-(2-Aminoethyl) piperazine CAS Number: 140-31-8 Synonyms: 2-piperazin-1-ethylamine, 2-Piperazin-1-ylethylamine	3 - 7	Acute toxicity(oral), category 4;H302 Skin corrosion/irritation category 1B;H314 Skin sensitizer category 1;H317 Aquatic toxicity (chronic), category 3;H412 Acute toxicity(dermal), category 3;H311	No data available
Epoxy-deta adduct CAS Number: 31326-29-1 Synonyms: No available information	3 - 7		No data available

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Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
m-phenylenebis(methylamine) CAS Number: 1477-55-0 Synonyms: 1,3-Benzenedimethanamine, 1,3-bis(aminomethyl)benzene, 1,3-Xylenediamine, alpha,alpha'-Diamino-m-xylene, Diamino-1,3-Xylol, m-Xylene-.alpha., .alpha.'-diamine, M-xylylenediamine, M-크실렌디아민, M-Xylylendiamin, MXDA	1 - 5	Acute toxicity(oral), category 4;H302 Skin corrosion/irritation category 1B;H314 Skin sensitizer category 1B;H317 Aquatic toxicity (chronic), category 3;H412 Serious eye damage / eye irritation, category 1;H318 Acute toxicity(inhalation), category 4;H332	No data available
Polyoxypropylenediamine CAS Number: 9046-10-0 Synonyms: No available information	1 - 5	Skin corrosion/irritation category 1C;H314 Serious eye damage / eye irritation, category 1;H318 Aquatic toxicity (acute), category 3;H402	No data available
p-tert-Butyl phenol CAS Number: 98-54-4 Synonyms: p-tert.butyl phenol	1 - 5	Skin corrosion/irritation category 2;H315 Serious eye damage / eye irritation, category 1;H318 Aquatic toxicity (chronic), category 1;H410 Reproductive toxicity, category 2;H361F	*PBT/vPvB
2,2'-iminodi(ethylamine) CAS Number: 111-40-0 Synonyms: bis(2-aminoethyl)amine, DETA, Diethylene triamine, Diethylenetriamine, Diethylenetriamine (DETA), dietilenatriamina	1 - 5	Acute toxicity(dermal), category 4;H312 Acute toxicity(oral), category 4;H302 Skin corrosion/irritation category 1B;H314 Skin sensitizer category 1;H317	No data available

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

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Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview No specific symptom data available.

Reproductive or genetic defect hazard. Treat symptomatically. See section 2 for further details.

Eyes Causes serious eye damage.

Skin May cause an allergic skin reaction. Causes severe skin burns and eye damage.

Ingestion Harmful if swallowed.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Do not breathe dust, fume, mist, vapors or spray.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

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Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.
See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information
See section 2 for further details. - [Storage]

Specific end use(s)

No available information

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
98-54-4	p-tert-Butyl phenol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
100-51-6	Benzyl alcohol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
108-95-2	Phenol	OSHA	5 ppm, 19 mg/m ³
		ACGIH	5 ppm
		NIOSH	TWA 5 ppm (19 mg/m ³) C 15.6 ppm (60 mg/m ³) [15-minute] [skin]
111-40-0	2,2'-iminodi(ethylamine)	OSHA	No Established Limit
		ACGIH	1 ppm
		NIOSH	TWA 1 ppm (4 mg/m ³) [skin]
112-24-3	Triethylene tetramine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
140-31-8	1-(2-Aminoethyl) piperazine	OSHA	No Established Limit
		ACGIH	No Established Limit

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CAS No.	Ingredient	Source	Value
1477-55-0	m-phenylenebis(methylamine)	NIOSH	No Established Limit
		OSHA	No Established Limit
		ACGIH	C 0.018 ppm
		NIOSH	C 0.1 mg/m ³ [skin]
9046-10-0	Polyoxypropylenediamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
31326-29-1	Epoxy-deta adduct	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
32610-77-8	Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
57214-10-5	Formaldehyde polymer with 1,3-benzene dimethanamine and phenol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
112945-52-5	Silicon dioxide, chemically prepared	OSHA	80 mg/m ³ / %SiO ₂ (mineral dusts)
		ACGIH	No Established Limit
		NIOSH	6 mg/m ³
206565-89-1	Fatty acids, c18-unsatd., dimers, reaction product with 1-piperazineethanamine and tall oil fatty acid	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Protective safety glasses recommended

Skin

Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State

Gel

Color

Blue

Odor

類似胺氣味道

Odor threshold

No available information

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Melting point / freezing point	No available information
Initial boiling point and boiling range	> 400°F (204°C) estimated based on similar product.
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No available information Upper Explosive Limit: No available information
Flash Point	Estimated > 200°F (93°C) estimated based similar product.
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	11.2
Viscosity (cSt)	No available information
Solubility in Water	No available information
Partition coefficient n-octanol/water (Log Kow)	No available information
Vapor pressure (Pa)	< 1 mmHg @ 20°C (estimated based on ingredient data).
Relative Density	1.05
Vapor Density	No available information
Evaporation rate (Ether = 1)	No available information
VOC Content	ADV-175 / ADV-273- 8.65 (g/L)
Oxidising properties	No available information
Explosive properties	No available information
Bulk Density	8.75 lbs./gal. (1.05kg/L)

Other information

No other relevant information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Hazardous Polymerization will not occur.

Chemical stability

Stable under normal circumstances.

Possibility of hazardous reactions

No available information

Conditions to avoid

Avoid high temperatures and contact with incompatible material

Incompatible materials

No available information

Hazardous decomposition products

No hazardous decomposition data available.

SECTION 11. TOXICOLOGICAL INFORMATION

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Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol - (32610-77-8)	No data available.	No data available.	No data available.	No data available.	No data available.
Benzyl alcohol - (100-51-6)	1,200.00, Rat - Category: 4	> 2,000.00, Rabbit - Category: NA	No data available.	4.18, Rat - Category: 4	No data available.
Triethylene tetramine - (112-24-3)	2,780.00, Rat - Category: 5	No data available.	No data available.	No data available.	No data available.
Fatty acids, c18-unsatd., dimers, reaction product with 1-piperazineethanamine and tall oil fatty acid - (206565-89-1)	No data available.	No data available.	No data available.	No data available.	No data available.
Phenol - (108-95-2)	282.00, Rat - Category: 3	630.00, Rat - Category: 3	No data available.	No data available.	No data available.
Silicon dioxide, chemically prepared - (112945-52-5)	3,160.00, Rat - Category: 5	No data available.	No data available.	No data available.	No data available.
Formaldehyde polymer with 1,3-benzene dimethanamine and phenol - (57214-10-5)	No data available.	No data available.	No data available.	No data available.	No data available.
1-(2-Aminoethyl) piperazine - (140-31-8)	> 1,000.00, Rat - Category: NA	866.00, Rat - Category: 3	No data available.	No data available.	No data available.
Epoxy-deta adduct - (31326-29-1)	No data available.	No data available.	No data available.	No data available.	No data available.
m-phenylenebis(methylamine) - (1477-55-0)					

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Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
	930.00, Rat - Category: 4	> 3,100.00, Rat - Category: NA	No data available.	1.60, Rat - Category: 4	No data available.
Polyoxypropylenediamine - (9046-10-0)	2,885.00, Rat - Category: 5	2,980.00, Rabbit - Category: 5	No data available.	No data available.	No data available.
p-tert-Butyl phenol - (98-54-4)	4,000.00, Rat - Category: 5	No data available.	No data available.	5.60, Rat - Category: NA	No data available.
2,2'-iminodi(ethylamine) - (111-40-0)	1,080.00, Rat - Category: 4	1,090.00, Rabbit - Category: 4	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
98-54-4	p-tert-Butyl phenol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
100-51-6	Benzyl alcohol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
108-95-2	Phenol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 3
		ACGIH	A4
111-40-0	2,2'-iminodi(ethylamine)	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
112-24-3	Triethylene tetramine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
140-31-8	1-(2-Aminoethyl) piperazine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;

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CAS No.	Ingredient	Source	Value
		IARC	No
		ACGIH	No Established Limit
1477-55-0	m-phenylenebis(methylamine)	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
9046-10-0	Polyoxypropylenediamine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
31326-29-1	Epoxy-deta adduct	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
32610-77-8	Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
57214-10-5	Formaldehyde polymer with 1,3-benzene dimethanamine and phenol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit
112945-52-5	Silicon dioxide, chemically prepared	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 3
		ACGIH	No Established Limit
206565-89-1	Fatty acids, c18-unsatd., dimers, reaction product with 1-piperazineethanamine and tall oil fatty acid	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	2	Suspected of causing genetic defects.
Carcinogenicity	---	Not Applicable

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Reproductive toxicity	2	Suspected of damaging fertility.
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	Not Applicable

Possible routes of entry:

Inhalation, ingestion, skin contact, and skin absorption.

Symptoms and effects, both acute and delayed:

No specific symptom data available.

Reproductive or genetic defect hazard. Treat symptomatically.

Eyes Causes serious eye damage.

Skin May be harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns and eye damage.

Ingestion Harmful if swallowed.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol - (32610-77-8)	No data available.	No data available.	No data available.
Benzyl alcohol - (100-51-6)	460.00, Pimephales promelas	230.00, Daphnia magna	770.00, Pseudokirchnerella subcapitata
Triethylene tetramine - (112-24-3)	495.00, Pimephales promelas	33.90, Daphnia magna	20.00, Selenastrum capricornutum
Fatty acids, c18-unsatd., dimers, reaction product with 1-piperazineethanamine and tall oil fatty acid - (206565-89-1)	No data available.	No data available.	No data available.
Phenol - (108-95-2)	3.73, Oncorhynchus gorbuscha	3.29, Ceriodaphnia dubia	46.42, Pseudokirchneriella subcapitata

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Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Silicon dioxide, chemically prepared - (112945-52-5)	No data available.	No data available.	No data available.
Formaldehyde polymer with 1,3-benzene dimethanamine and phenol - (57214-10-5)	No data available.	No data available.	No data available.
1-(2-Aminoethyl) piperazine - (140-31-8)	100.00, Oncorhynchus mykiss	32.00, Daphnia magna	495.00, Pseudokirchneriella subcapitata
Epoxy-deta adduct - (31326-29-1)	No data available.	No data available.	No data available.
m-phenylenebis(methylamine) - (1477-55-0)	87.60, Oryzias latipes	28.00, Daphnia magna	20.30, raphidocelis subcapitata
Polyoxypropylenediamine - (9046-10-0)	15.00, Oncorhynchus mykiss	80.00, Daphnia magna	2.10, Pseudokirchneriella subcapitata
p-tert-Butyl phenol - (98-54-4)	5.14, Pimephales promelas	3.90, Daphnia magna	No data available.
2,2'-iminodi(ethylamine) - (111-40-0)	1,014.00, Poecilia reticulata	53.50, Daphnia magna	345.60, Pseudokirchneriella subcapitata

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

No available information

Mobility in soil

No available information

Results of PBT and vPvB assessment

This product contains PBT/vPvB/vPvM chemicals.

Other adverse effects

No available information

SECTION 13. DISPOSAL CONSIDERATIONS

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Waste treatment methods

Observe all federal, provincial and local regulations when disposing of this substance.

SECTION 14. TRANSPORT INFORMATION

Not regulated for packages under 5L (1.3 gallons) or 5.0 kg (11 lbs).



	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN3259	UN3259	UN3259
UN proper shipping name	Corrosive solid, n.o.s., (Contains Triethylenetetramine)	Corrosive solid, n.o.s., (Contains Triethylenetetramine)	Corrosive solid, n.o.s., (Contains Triethylenetetramine)
Transport hazard class(es)	Class: 8 Sub Class: Not Applicable	Class: 8 Sub Class: Not Applicable	Class: 8 Sub Class: Not Applicable
Packing group	III	III	III

Environmental hazards

IMDG Marine Pollutant: Yes; (Fatty acids, c18-unsatd., dimers, reaction product with 1-piperazineethanamine and tall oil fatty acid)

Special precautions for user

No available information

SECTION 15. REGULATORY INFORMATION

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Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
0000140-31-8	1-(2-Aminoethyl) piperazine	Yes		ACTIVE
0000111-40-0	2,2'-iminodi(ethylamine)	Yes		ACTIVE
0000100-51-6	Benzyl alcohol	Yes		ACTIVE
0031326-29-1	Epoxy-deta adduct	Yes	XU	ACTIVE
0206565-89-1	Fatty acids, c18-unsatd., dimers, reaction product with 1-piperazineethanamine and tall oil fatty acid	Yes	UVCB PMN; S	ACTIVE
0057214-10-5	Formaldehyde polymer with 1,3-benzene dimethanamine and phenol	Yes	PMN; XU	ACTIVE
0032610-77-8	Formaldehyde, polymer with n,n'-bis(2-aminoethyl)-1,2-ethanediamine and phenol	Yes	XU	ACTIVE
0001477-55-0	m-phenylenebis(methylamine)	Yes		ACTIVE
0000098-54-4	p-tert-Butyl phenol	Yes		ACTIVE
0000108-95-2	Phenol	Yes		ACTIVE
0009046-10-0	Polyoxypropylenediamine	Yes	XU	ACTIVE
0112945-52-5	Silicon dioxide, chemically prepared	No		
0000112-24-3	Triethylene tetramine	Yes		ACTIVE

EPCRA 302 Extremely Hazardous:

Phenol

EPCRA 313 Toxic Chemicals:

Phenol

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OTHER INFORMATION

Revision Date

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

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.

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H332 Harmful if inhaled.

H341 Suspected of causing genetic defects.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H402 Harmful to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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