

CRP

Concrete Restoration Products

1. Identification

Product identifier used on the label

CRP MOISTURE BLOCK - HARDENER

Recommended use of the chemical and restriction on use*
Epoxy Hardener

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

Concrete Restoration Products
1772-j Ave de Los Arboles #389
Thousand Oaks Ca 91362
866-678-1948

Emergency telephone number

CHEMTREC: 1-800-424-9300

Other means of identification

Chemical family: mixed amine
Synonyms: mixed amine

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

FLAMMABLE LIQUIDS	- Category 4
SKIN CORROSION/IRRITATION	- Category 1B
SERIOUS EYE DAMAGE/ EYE IRRITATION	- Category 1
SKIN SENSITIZATION	- Category 1
AQUATIC HAZARD (ACUTE)	- Category 2
AQUATIC HAZARD (LONG-TERM)	- Category 1

Label Elements

Pictogram:



Signal Word: Danger

Hazard Statement:

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H227 Combustible liquid.
H314 Causes severe skin burns and eye damage. May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands thoroughly after handling.
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.

Precautionary Statements (Response):

P301 + P330 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

Precautionary Statements (Disposal):

P501 Disposal of contents/container to be specified in accordance with regulations.

3. Composition / Information on Ingredients

Ingredient name	%	CAS number
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	25 - 70	186321-96-0
Benzyl Alcohol	10 - 35	100-51-6
3-aminopropyldimethylamine	1 - 8	109-55-7
2,4,6-tris(dimethylaminomethyl)phenol	1 - 8	90-72-2
Proprietary	< 10	Trade Secret

4. First-Aid Measures

Description of first aid measures

General advice:

Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

If inhaled:

If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

If on skin:

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Take off contaminated clothing and shoes immediately.

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If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

Most important symptoms and effects, both acute and delayed:

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Neurological disorders. Asthma. Skin disorders and Allergies. Eye disease.

Note to physician

Treatment: Application of corticosteroid cream has been effective in treating skin irritation.

5. Fire-Fighting Measures

Extinguishing media

Use dry chemical, CO₂, water spray (fog) or foam

Unsuitable Extinguishing Media

Do not use water jet

Special hazards arising from the substance or mixture

Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Advice for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special Protective Equipment for Fire-Fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Impact Sensitivity:

Remarks: No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

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Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage

Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and Storage

Handling

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 2 to 40°C (35.6 to 104°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination..

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition - No smoking. Keep container tightly closed.

Storage stability: Do not store in reactive metal containers. Keep container dry because product takes up the humidity of air.

8. Exposure Controls/Personal Protection

Components with workplace control parameters

Contains no substances with occupational exposure limit values

Personal protective equipment

Respiratory protection:

Wear respiratory protection when local exhaust ventilation is inadequate or exposure is determined to be within recommended exposure guidelines. Combined particulates and organic vapour type.

Hand protection:

Butyl-rubber, nitrile rubber, neoprene, PVC disposable, or otherwise impervious gloves should be worn. Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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Eye protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary avoid exposure to liquid splashes, mists, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit, long-sleeve shirts, trousers without cuffs.

9. Physical and Chemical Properties

Form:	liquid
Odor:	Amine-Like
Color:	Amber
pH value:	Alkaline, 10-12
Melting point:	No data available
Boiling point:	> 135 °C
Flash point:	> 76 °C (DIN 51758 EN 22719 (Pensky-Martens Closed Cup))
Flammability:	Not flammable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Autoignition:	No data available
Vapor pressure:	Not available
Density:	1.03 g/cm ³ at 68 °F (20 °C)
Viscosity, Dynamic	600-1700 CPS
Solubility in Water	Partially soluble
Evaporation rate:	< Ether

10. Stability and Reactivity

Chemical Stability:

Stable under normal conditions.

Conditions to avoid:

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid:

Reactive or incompatible with oxidizing materials.

Hazardous decomposition products:

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

Possibility of hazardous Reactions/Reactivity:

No data available.

11. Toxicological information

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Information on toxicological effects

Likely routes of exposure

Effects on Eye:

Severe eye irritation.

Effects on Skin :

If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.

Inhalation Effects:

May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Ingestion Effects:

Harmful if swallowed. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.

Symptoms:

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause Sore throat. Neurological disorders, Asthma, Skin disorders and Allergies, Eye disease.

Acute toxicity

Acute Oral Toxicity:

LD50: 4,106 mg/kg
Method: Calculation Method.

Inhalation:

No data is available on the product itself.
Inhalation - Components
Benzyl alcohol: LC50 (Rat, male and female): > 4,178 mg/m³
OECD Test Guideline 403
Exposure Time: 4 h

Acute Dermal Toxicity:

Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation Method

Skin corrosion/irritation:

Components:

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

Species: human skin

Assessment: Irritant

Method: OECD Test Guideline 439

Benzyl alcohol

Species: Rabbit

Assessment: No skin irritation

Method: OECD Test Guideline 404

3-aminopropyldimethylamine

Species: Rabbit

Method: OECD Test Guideline 404

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Result: Causes burns

2,4,6-tris(dimethylaminomethyl)phenol

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 1 to 4 hours of exposure

Serious Eye Damage/Eye Irritation

Components:

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

Species: Not assigned

Result: Severe Irritation

Assessment: Risk of serious damage to eyes

Method: OECD Test Guideline 437

Benzyl alcohol

Species: Rabbit

Result: Irritating to eyes

Assessment: Irritant

Method: OECD Test Guideline 405

3-aminopropyldimethylamine

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irreversible effects on the eye

2,4,6-tris(dimethylaminomethyl)phenol

Species: Rabbit

Result: Irreversible effects on the eye

Assessment: Corrosive

Respiratory or skin sensitization

Components:

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

Exposure Routes: Skin

Species: Mouse

Result: Causes sensitization

Assessment: May cause sensitization by skin contact

Method: OECD Test Guideline 429

Benzyl alcohol

Species: Guinea pig

Result: Does not cause skin sensitization

Exposure Route: Skin

3-aminopropyldimethylamine

Species: Guinea pig

Method: OECD Test Guideline 406

Result: The product is a skin sensitizer, sib-category 1B

Exposure Route: Respiratory Tract

Species: Humans

Result: Does not cause respiratory sensitization

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2,4,6-tris(dimethylaminomethyl)phenol
Species: Guinea Pig
Method: OECD Test Guideline 406
Result: Negative

Assessment: The product is a skin sensitizer, sub-category 1B

Germ Cell Mutagenicity

Components:

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

Genotoxicity in vitro:

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: Negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: Negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: Negative

3-aminopropyldimethylamine

Genotoxicity in vitro:

Concentration: 0-300 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: Negative

Test Type: Ames Test
Concentration: 0-10,000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: Negative

Concentration: 0-715.4 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: Negative

2,4,6-tris(dimethylaminomethyl)phenol

Genotoxicity in vitro:

Concentration: 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: Negative

Concentration: 2500 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: Negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: Negative

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Benzyl alcohol

Genotoxicity in vitro:

Application route: Intraperitoneal Injection

Dose: 200 mg/kg

Method: OECD Test Guideline 474

Result: Negative

3-aminopropyldimethylamine

Genotoxicity in vitro:

Application route: Intraperitoneal Injection

Dose: 0-100 mg/kg

Method: OECD Test Guideline 474

Result: Negative

3-aminopropyldimethylamine

Germ Cell Metagenicity Assessment: Tests on bacterial or mammalian cell cultures did not show mutagenic effects

Carcinogenicity

Components:

Benzyl alcohol

Species: Rat (male and female)

Application Route: Oral

Exposure time: 103 Weeks

Dose: 400 mg/kg

Frequency of Treatment: 5 daily

Method: OECD Test Guideline 453

Result: Negative

3-aminopropyldimethylamine

Species: Rat (male and female)

Application Route: Oral

Exposure time: 54 Weeks

Dose: 20, 100, and 350 mg/kg body weight

Frequency of Treatment: Every second week

NOAEL: 159 mg/kg bw/day

Species: Mouse, (Male)

Application Route: Dermal

Exposure time: Complete life span

Dose: 25ul of 1% aqueous solution

Frequency of Treatment: 3x/wk

NOAEL: 8 mg/kg bw/day

Exposure Route: Respiratory Tract

Species: Humans

Result: Does not cause respiratory sensitization

2,4,6-tris(dimethylaminomethyl)phenol

Species: Guinea Pig

Method: OECD Test Guideline 406

Result: Negative

3-aminopropyldimethylamine

Carcinogenicity Assessment: Not Classifiable as a human carcinogen

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Assessment:

IARC – No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA – No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA

NTP – No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP

Reproductive Toxicity

Components:

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

Effects on Fertility:

Species: Rat (male and female)

Application Route: Oral

Method: OECD Test Guideline 422

3-aminopropyldimethylamine

Test Type: Reproduction/Developmental Toxicity Screening Test

Species: Rat (male and female)

Application Route: Oral

Dose: 0, 10, 50, 200 mg/kg

General Toxicity – Parent: No observed adverse effect level: 200mg/kg body weight

General Toxicity F1: No observed adverse effect level: 200mg/kg body weight

Method: OECD Test Guideline 421

2,4,6-tris(dimethylaminomethyl)phenol

Species: Rat (male and female)

Application Route: Oral

Remarks: No significant adverse effects were reports

Method: OECD Test Guideline 422

Effects on fetal development

Benzyl alcohol

Species: Mouse (female)

Application Route: Oral

General toxicity maternal: Lowest observed adverse effect level: 550 mg/kg body weight

Result: No teratogenic effects

3-aminopropyldimethylamine

Species: Rat (male and female)

Application Route: Oral

General toxicity maternal: No observed adverse effect level: 200 mg/kg body weight

Method: OECD Test Guideline 421

Result: No effects on fertility and early embryonic development were detected

Reproductive Toxicity Assessment

3-aminopropyldimethylamine – No toxicity to reproduction

Assessment: Did not show teratogenic effects in animal experiments

STOT – Single Exposure

3-aminopropyldimethylamine

Target Organ: Lungs

Assessment: May cause respiratory irritation

STOT – Repeated Exposure

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3-aminopropyldimethylamine

Exposure Routes: Ingestion, Skin Contact, Inhalation (vapor)

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure

Repeated dose toxicity

Components:

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

Species: Rat (male and female)

NOAEL: 1000 mg/kg/d

Application Route: Ingestion

Number of Exposures: 7 d

Method: Subacute Toxicity

Benzyl Alcohol

Species: Rat (male and female)

: 400 mg/kg, 1072 mg/m³

Application Route: Ingestion

Test atmosphere: Dust/Mist

Exposure Time: 4 weeks

Number of Exposures: 6 h

Method: OECD Test Guideline 412

3-aminopropyldimethylamine

Species: Rat (male and female)

NOAEL: 50 mg/kg

LOAEL: 250 mg/kg

Application Route: Ingestion

Exposure Time: 28 days

Number of Exposures: 7 days/week

Dose: 0, 10, 50, 250 mg/kg

Method: OECD Test Guideline 407

Species: Rat (male and female)

NOAEL: 144 mg/m³

NOAEL: 48 mg/kg

LOAEL: 107 mg/kg

Application Route: Ingestion

Exposure Time: 1,032 h

Number of Exposures: 7 days

Method: Subacute Toxicity

Repeated dose toxicity: No Data Available

Aspiration Toxicity: No Data Available

Experience with human exposure: No Data Available

Toxicology, Metabolism, Distribution: No Data Available

Neurological effects: No Data Available

12. Ecological Information

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EcoToxicity Effects

Components:

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

Toxicity to Fish

LC50 (oncorhynchus mykiss (rainbow trout)): 1.806 mg/l

Exposure Time: 96 h

Test Type: static test

Test substance: Fresh Water

Method: OECD Test Guideline 203

Benzyl Alcohol

LC50: 460 mg/l

Exposure Time: 96 h

Test Type: static test

Test substance: Fresh Water

Method: OPPTS 850.1075

2,4,6-tris(dimethylaminomethyl)phenol

LC50: Cyprinus carpio (Carp)): 175 mg/l

Exposure Time: 96 h

Test Type: static test

Test substance: Fresh Water

Components:

Toxicity to daphnia and other aquatic invertebrates

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

EC50 (Daphnia magna (Water flea)): 0.705 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

Benzyl Alcohol

EC50 (Daphnia magna (Water flea)): 230 mg/l

Exposure time: 48 h

Test substance: Fresh water

Method: OECD Test Guideline 202

3-aminopropyldimethylamine

EC50 (Daphnia magna (Water flea)): 59.5 mg/l

Exposure time: 48 h

Test Type: static test

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.2

2,4,6-tris(dimethylaminomethyl)phenol:

LC50: 718 mg/l aquatic invertebrates

Exposure time: 96 h

Test Type: static test

Test substance: Marine water

Components:

Toxicity to algae

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Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

ErC50 (Selenastrum capricornutum (green algae)):0.186 mg/I

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

Benzyl Alcohol

EgC50 (Selenastrum capricornutum (green algae)):770 mg/I

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

3-aminopropyldimethylamine:

ErC50 (Pseudokirchneriella subcapitata (green algae)):34 mg/I

Exposure time: 72 h

Test Type: Static test

Test substance: Fresh water

Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 26 mg/I

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 19.53 mg/I

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

2,4,6-tris(dimethylaminomethyl)phenol:

ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 84 mg/I

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)): 6.25 mg/I

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) – No Data Available

Toxicity to Fish (Chronic toxicity) – No Data Available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

benzyl alcohol:

NOEC (Daphnia magna (Water flea)): 51 mg/I

Exposure time: 21 d

Test Type: semi-static test

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Test substance: Fresh water
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) – No Data Available

Toxicity to bacteria

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

EC50 (activated sludge): 157.6 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms - No data available

Plant toxicity - No data available

Sediment toxicity- No data available

Toxicity to terrestrial organisms - No data available

Ecotoxicology Assessment Acute aquatic toxicity - No data available

Chronic aquatic toxicity

2,4,6-tris(dimethylaminomethyl)phenol:

This product has no known ecotoxicological effects

Toxicity Data on Soil – No Data Available

Other organisms relevant to the environment – No Data Available

Further information: No data available

Persistence and degradability

Biodegradability

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and Triethylenetetramine

Concentration: 22

Result: Not readily biodegradable.

Biodegradation: 9 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

benzyl alcohol

Inoculum: Sewage (STP effluent)

Concentration: 20 mg/l

Result: Readily biodegradable

Biodegradation: 95 - 97 %

Exposure time: 21 d

Method: OECD Test Guideline 301A

3-aminopropyldimethylamine

Inoculum: activated sludge

Result: Readily biodegradable

Biodegradation: 65 %

Exposure time: 20 d

Method: OECD Test Guideline 301D

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2,4,6-tris(dimethylaminomethyl)phenol:

Inoculum: activated sludge

Concentration: 2 mg/l

Result: Not readily biodegradable.

Biodegradation: 4 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

Biochemical Oxygen Demand (BOD) – No Data Available

Chemical Oxygen Demand (COD) – No Data Available

BOD/COD

ThOD – No Data Available

BOD/ThOD – No Data Available

Dissolved organic carbon (DOC) – No Data Available

Physico-chemical removability – No Data Available

Stability in Water – No Data Available

Photodegradation

3-aminopropyldimethylamine

Test Type: Air

Degradation (direct photolysis): 50 %

Method: Calculation method

Impact on Sewage Treatment – No Data Available

Bioaccumulative potential

Bioaccumulation

benzyl alcohol: Bioconcentration factor (BCF): 1

3-aminopropyldimethylamine: Species: Fish.

Bioconcentration factor (BCF): 3.16

Partition coefficient: n- octanol/water

Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and

Triethylenetetramine

log Pow: 3.38 (25 °C)

pH: 10.4

Method: OECD Test Guideline 117

benzyl alcohol: log Pow: 1.1 (20 °C)

3-aminopropyldimethylamine: log Pow: -0.352 (25 °C)

2,4,6-tris(dimethylaminomethyl)phenol: log Pow: 0.219 (21.5 °C). Method: OPPTS 830.7550

Mobility: No Data Available

Distribution among environmental compartments

benzyl alcohol: Koc: 5 – 15

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3-aminopropyldimethylamine
Koc: 29, log Koc: 1.46
Method: estimated
Koc: 4.409, log Koc: 0.644

Stability in Soil – No Data Available

Other adverse effects: No Data Available

Environmental fate and pathways: No Data Available

Results of PST and vPvB assessment: No Data Available

Endocrine disrupting potential: No Data Available

Absorbed organic bound halogens (AOX): No Data Available

Hazardous to the Ozone Layer

Ozone Depletion Potential

Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone – CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Sub Pt. A, App. A + B).

Additional ecological information: No data available

Global Warming Potential (GWP): No data available

13. Disposal Considerations

Dispose of in a licensed facility. Do not discharge into waterways or sewer systems without proper authorization. Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Waste from Residue:

Can be landfilled or incinerated, when in compliance with local regulations. Where possible recycling is preferred to disposal or incineration. Send to a licensed waste management company.

Contaminated Packaging

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

14. Transport Information

Land transport

USDOT

Hazard class: 8

Packing group: II

ID number: UN 2735

Hazard label: 8

Proper shipping name: Amines, liquid, corrosive, n.o.s. (3-Aminopropyl Dimethylamine, 2,4,6-Tris(Dimethyl Aminomethyl) Phenol)

Marine Pollutant: YES

Sea transport

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IMDG

Hazard class: 8
 Packing group: II
 ID number: UN 2735
 Hazard label: 8
 Proper shipping name: Amines, liquid, corrosive, n.o.s. (3-Aminopropyl Dimethylamine, 2,4,6-Tris(Dimethyl Aminomethyl) Phenol)
 Marine Pollutant: YES

Air transport

IATA/ICAO

Hazard class: 8
 Packing group: II
 ID number: UN 2735
 Hazard label: 8
 Proper shipping name: Amines, liquid, corrosive, n.o.s. (3-Aminopropyl Dimethylamine, 2,4,6-Tris(Dimethyl Aminomethyl) Phenol)
 Marine pollutant: YES

15. Regulatory Information

EPCRA – Emergency Planning and Community Right-to-Know Act Right

Components	CAS NO	Component RQ (lbs)	Calculated Product RQ (lbs)
Toluene	108-88-3	1000	*

* Calculated RQ exceed reasonably attainable upper limit

EPA SARA Title III Section 311/312 (40 CFR 370) Hazard Classification: Fire hazard, Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level: None.

HAP: This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm

CH INV	The formulation contains substances listed on the Swiss Inventory, On the inventory, or in compliance with the inventory
TSCA	On the inventory, or in compliance with the inventory
TSCA – S (a)	No substances are subject to a significant new use rule
TSCA – 12(b) Export Notification (40 CFR 707, Subpt D)	No substances are subject to TSCA 12(b) export notification requirements.
DSL	This product contains one or several components listed in the Canadian NDSL.
AICS	Not in compliance with the inventory
NZIoC	On the inventory, or in compliance with the inventory
ENCS	Not in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory

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TCSI	On the inventory, or in compliance with the inventory
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16. Other Information

HMIS Rating

Health : 3
Flammability : 2
Physical hazard : 0

SDS Prepared by:

Concrete Restoration Products Enterprises

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of B. D. Classic Enterprises, Inc. Product Safety Program. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information obtained herein. Data sheets are available for all B. D. Classic products. You are urged to obtain data sheets for all B. D. Classic products you buy, process, use or distribute and you are encouraged and requested to advise those who may come in contact with such products of the information contained therein.

To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency. B. D. Classic does not undertake to furnish advice on such matters.