



Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03/27/2020

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TXP Fast Part A

SECTION 1: Identification

Product identifier

Product name: CTS TXP Fast Part A
Product code: 185040000

Recommended use of the product and restriction on use

Relevant identified uses: Epoxy Resin
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Company Name:
United States
CTS Cement Manufacturing Corporation
12442 Knott St.
Garden Grove, CA 92841
800-929-3030
info@ctscement.com

Emergency telephone number:

United States
CTS Cement Manufacturing Corporation
1-800-929-3030 (8 AM - 5 PM)

SECTION 2: Hazard(s) identification

GHS classification:

Corrosion / Skin irritation, category 2
Serious eye damage, category 2A
Sensitization of the skin, category 1
Chronic aquatic toxicity, category 2
Hazardous to the aquatic environment, acute hazard, category 2
Hazardous to the aquatic environment, long-term hazard, category 2

Label elements

Hazard pictograms:



Signal word: WARNING

Hazard statements:

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H401: Toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

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Precautionary statements:

- P102: Keep out of reach of children.
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264: Wash hands/skin 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 statements:

- P321: Specific treatment (see Warning section on this label).
- P302 + P352: IF ON SKIN: Wash with plenty of water.
- P333 + P313: IF SKIN irritation or rash occurs: Get medical advice/attention.
- P360: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
- P362: Take off contaminated clothing.
- P363: Wash contaminated clothing before reuse.
- 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.
- P337 + P313: IF eye irritation persists: Get medical advice/attention.
- P391: Collect spillage.

Storage:

- P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal:

- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 25068-38-6 2095-03-6	Modified Epoxy Resin	80-90
CAS number: ND	Aggregates	5-10
CAS number: ND	Pigments	5-10

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:

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.

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After inhalation:

Move person to fresh air.

After skin contact:

Immediately remove contaminated clothing, and any extraneous chemical, if possible, to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

After eye contact:

Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

After swallowing:

Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Prevent aspiration of vomit. Turn victim's head to the side.

Most important symptoms and effects:

Eye disease. Skin disorders and Allergies.

Immediate medical attention and special treatment:

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

- Water fog or fine spray.
- Dry chemical fire extinguishers.
- Carbon dioxide fire extinguishers.
- Use foaming agent in use or water spray.
- Alcohol resistant foams (ATC type) are preferred.
- General purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.

Unsuitable extinguishing media:

Do not use direct water stream. May spread fire.

Specific hazards during fire-fighting:

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolic compounds. Nitrogen oxides. Carbon monoxide. Carbon dioxide. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Special protective equipment for firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location.

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For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Special precautions:

- Keep people away.
- Isolate fire and deny unnecessary entry.
- Do not use direct water stream. May spread fire.
- Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

Environmental precautions:

Do not allow spill to enter sewers or water ways.

Methods and material for containment and cleaning up:

- Approach suspected leak areas with caution. Place in appropriate chemical waste container.
- If solid: contain and clean mechanically, waste according local regulations
- If liquid: clean with inert absorbent material (sand, silica powder, ecc).

Additional tips

If possible, stop the flow of the product. Slippery material when spilled.

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

- Ensure good ventilation / extraction in the workplace
- Avoid all sources of ignition: heat, sparks, flame

Conditions for safe storage, including any incompatibilities:

- Keep container tightly closed
- Keep the container in a well-ventilated place
- Protect from temperatures below 0°C(32°F)
- Protect from temperatures above 40°C (104°F)

SECTION 8: Exposure controls/personal protection

Occupational Exposure limit values:

ACGIH TLV

Not available.

Appropriate engineering controls:

Ensure adequate ventilation

Personal protection equipment

Eye and face protection:

Eye protection such as splash-resistant safety goggles with a secondary face shield. Provide an

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emergency eye wash station and a quick immersion shower in the immediate work area.

Skin and body protection:

Wear the appropriate glove resistant ton chemical products. Wear appropriate clothing.

Respiratory protection:

Respiratory protection may be required.

General hygienic measures:

Not available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	White liquid
Odor	Not available
Odor threshold	Not available
pH	Not Soluble
Melting point/freezing point	-16°C (3°F) (at 1,013hPa)
Initial boiling point/range	Not available
Flash point (closed cup)	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	4.6 x 10 ⁻⁸ Pa (@ 25°C)
Vapor density	Not available
Density	Not available
Relative density	1.13 (kg/L @ 25°C)
Solubilities	6.9 mg/L (at 20°C) - Insoluble
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

Other information

VOC (Weight %)	0 g/l
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SECTION 10: Stability and reactivity

Reactivity:

Stable under normal conditions of handling and storage.

Chemical stability:

Stable under normal conditions of handling and storage.

Conditions to avoid:

Exposure to elevated temperatures can cause product to decompose.

Avoid moisture. Reaction with carbon dioxide may form an amine carbamate.

Smoke may be generated depending on vapor pressure of mixture.

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Product absorbs carbon dioxide from the air.

Incompatible materials:

Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds.
Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Sodium hypochlorite.
Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.
Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.
Avoid contacting with strong oxidizing agent, heat, spark and flame

Hazardous decomposition products:

May produce hazardous carbon oxides, chloro hydrogen.
Carbon monoxide (CO). Carbon dioxide (CO₂).
Aldehydes.
Flammable hydrocarbon fragments.

SECTION 11: Toxicological information

Information on the likely routes of exposure

The routes of entry of solids and liquids are ingestion and inhalation but may include contact with the eyes or skin. Gas entry routes include inhalation and eye contact. Skin contact may be an entry route for liquefied gases. Main routes of entry: inhalation, dermal contact, ingestion.

Acute toxicity / Effects:

Oral: LS50: 3,800 mg/kg Specie: Rat
Inhalation: no data available on the product itself
Dermal: LD50: 8,500 mg/kg Specie: Rat
Irritation / eye corrosion: Severe eye irritation
Irritation / acute dermic corrosion: severe skin irritation
Sensitization: Sensitization has occurred in laboratory animals after repeated exposures. May cause sensibilization by skin contact. causes sensitization incavy

SECTION 12: Ecological information

Ecotoxicity

Not Available

Persistence and Persistence and degradability

Not Available

Bioaccumulative potential

Not Available

Mobility in the soil

Not Available

Other adverse effects

Not Available

SECTION 13: Disposal considerations

Disposal methods:

Waste from waste / not used: must be disposed of in accordance with local regulations. This product, if disposed of properly, is not a hazardous waste as specified in 40 CFR 261
Contaminated packaging: Due to the empty container retains product residues, all hazard precautions must

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be observed on labels.

SECTION 14: Transport information

International Maritime Dangerous Goods (IMDG)

UN number	3082
UN proper shipping name	Environmentally hazardous substance, liquid (Modified Epoxy Resin)
UN transport hazard class(es)	9
Packing group	III
Label	9
Marine Pollutant	Applicable
Special Precautions for the user related to transport measures	No Data Available

SECTION 15: Regulatory information

OSHA Hazard Communication Standard Act: No Data

Toxic Chemical Control Act: 25068-38-6: Observational Chemical

Safety Control Dangerous Substance Act: Class 4, Class 3 Petroleum 2000L

Wastes Control Act: No Data

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

The information contained in this document is considered accurate. It is provided independently of any sale of the product for risk communication purposes. It is not intended to constitute performance information with respect to the product. No express warranty or implied warranty of merchantability or fitness for a particular purpose is granted with respect to the product or information contained herein. This safety data sheet was compiled with data and information from the following sources: KOSHA, NITE, ES IS, NLM, SIDS, IPCS. The information is considered correct but is not exhaustive and will be used only as guidance, which is based on the current knowledge of the chemical or mixture and is applicable to the appropriate safety precautions for the product.

Initial preparation date: 03/27/2020

Version #: 4

Revision Date: 3/10/2021

End of Safety Data Sheet



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TXP Fast Part B

SECTION 1: Identification

Product identifier

Product name: CTS TXP Fast Part B

Product code: 185040000

Recommended use of the product and restriction on use

Relevant identified uses: Epoxy curing agent

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Company Name:

United States

CTS Cement Manufacturing Corporation

12442 Knott St.

Garden Grove, CA 92841

800-929-3030

info@ctscement.com

Emergency telephone number:

United States

CTS Cement Manufacturing Corporation

1-800-929-3030 (8 AM - 5 PM)

SECTION 2: Hazard(s) identification

GHS classification:

Acute toxicity - Oral, Category 4

Acute toxicity – Inhalation, Category 4

Germ cell mutagenicity – Category 2

Corrosion / Skin irritation, Category 1B

Sensitization of the skin, Category 1

Serious Eye Damage – Category 1

Chronic aquatic toxicity – Category 2

Label elements

Hazard pictograms:



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Signal word: DANGER

Hazard statements:

- H314: Causes severe skin burns and eye damage.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H332: Harmful if inhaled.
- H341: Suspected of causing genetic defects.
- H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P102: Keep out of reach of children.
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe dust/fume/gas/mist/vapors/spray.
- P264: Wash hands/skin thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- 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.
- P281: Use personal protective equipment as required.

Response statements:

- P321: Specific treatment (see Warning section on this label).
- P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician IF you feel unwell.
- P302+352: 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 [or shower].
- P333+P313: IF SKIN irritation or rash occurs: Get medical advice/attention.
- P363: Wash contaminated clothing before reuse.
- P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P304+P312: IF INHALED: Call a POISON CENTER/doctor/physician if you feel unwell.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P310: Immediately call a POISON CENTER or doctor/physician.
- P308+P313: IF exposed or concerned: Get medical advice/attention.
- P391: Collect spillage.

Storage:

- P405: Store locked up.

Disposal:

- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: NA	Aliphatic amine	15-25
CAS number: 8007-24-7	Cashew nut liquid	10-25

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CAS number: 90-72-2	Tris (dimethylamidomethyl) Phenol	0-4
CAS number: 1477-55-0	1,3-Bis (amidomethyl)benzene	0-4
CAS number: 109-55-7	3-Aminopropyldimethylamine	1-2
CAS number: 108-95-2	Phenol	0-2

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

SECTION 4: First aid measures

Description of first aid measures

General notes:

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.

After inhalation:

Move person to fresh air.

After skin contact:

Immediately remove contaminated clothing, and any extraneous chemical, if possible, to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

After eye contact:

Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

After swallowing:

Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Prevent aspiration of vomit. Turn victim's head to the side.

Most important symptoms and effects:

Eye disease. Skin disorders and Allergies.

Immediate medical attention and special treatment:

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

- Alcohol-resistant foam
- Carbon dioxide (CO₂)

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- Dry chemical. Dry sand
- Limestone powder

Unsuitable extinguishing media:

Not available

Specific hazards during fire-fighting:

Incomplete combustion may form carbon monoxide.
May generate ammonia gas.
May generate toxic nitrogen oxide gases.
Do not allow run-off from firefighting to enter drains or water courses.
Burning produces noxious and toxic fumes.
Downwind personnel must be evacuated.

Special protective equipment for firefighters:

Avoid contact with the skin.
A face shield should be worn.
Wear self-contained breathing apparatus for firefighting if necessary.

Special precautions:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Do not allow run-off from firefighting to enter drains or water courses.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

Environmental precautions:

Do not allow spill to enter sewers or water ways.
Use appropriate containment to avoid environmental contamination.
Construct a dike to prevent spreading.

Methods and material for containment and cleaning up:

Approach suspected leak areas with caution. Place in appropriate chemical waste container.

Additional tips

If possible, stop the flow of the product.

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not use sodium nitrite or other nitrosant agents in formulations containing this product. Nitrosamines could form.
Avoid contact with skin and eyes.
Emergency showers and eye wash stations should be readily accessible.
Adhere to work practice rules established by government regulations.
Use personal protective equipment.
When using, do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities:

Do not store near acids.
Keep containers tightly closed in a dry, cool and well-ventilated place.

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SECTION 8: Exposure controls/personal protection

Occupational Exposure limit values:

ACGIH TLV

Not available.

Appropriate engineering controls:

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Ventilation: Normal room ventilation is sufficient, however, mechanical ventilation It provides better results.

Personal protection equipment

Eye and face protection:

Full face goggles underneath.

Skin and body protection:

Use neoprene or plastic gloves. Disposable PVC gloves. Butyl rubber. Chemical resistant waterproof gloves must be worn at all times. Impervious clothing. Rubber or plastic boots. Slicker suit.

Respiratory protection:

Wear an appropriate respirator when ventilation is inadequate.

General hygienic measures:

Not available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Amber Liquid
Odor	Ammoniacal
Odor threshold	Not available
pH	10
Melting point/freezing point	Not available
Initial boiling point/range	230°C (446°F)
Flash point (closed cup)	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	0.2 mm Hg
Vapor density	Not available
Density	Not available
Relative density	0.99 (kg/L @ 25°C)
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	650 cps (25°C)
Explosive properties	Not available
Oxidizing properties	Not available

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Other information

VOC (Weight %)	0 g/l
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SECTION 10: Stability and reactivity

Reactivity:

Stable under normal conditions of handling and storage.

Chemical stability:

Stable under normal conditions of handling and storage.

Conditions to avoid:

No data available.

Incompatible materials:

Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds.
Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Sodium hypochlorite.
Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.
Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.
Oxidizing agents.

Hazardous decomposition products:

Nitric acid. Ammonia.
Nitrogen oxides (NOx).
Nitrogen oxide can react with water vapors to form corrosive nitric acid.
Carbon monoxide (CO). Carbon dioxide (CO2).
Aldehydes.
Flammable hydrocarbon fragments.

SECTION 11: Toxicological information

Toxicological effects

Eye effects: severe eye irritation.
Skin effects: Cause skin irritation.
Inhalation effect: May cause lung irritation. Inhalation of vapor and aerosol in high concentration may cause irritation of the respiratory system.
Ingestion effects: Not available data.

Symptoms:

Repeated and/or prolonged exposure to low concentrations of vapor may cause: sore throat which are transient, liver disorders (such as jaundice or liver enlargement), kidney disorders (such as edema or proteinuria), asthma, adverse respiratory effects such as cough, chest tightness, or difficulty breathing, skin disorders and allergies, adverse skin effects (such as rash, irritation or corrosion), adverse eye effects (such as conjunctivitis or corneal damage), eye damage.

Acute toxicity: LD50:> 2,200 mg / kg. Species: Rats
Inhalation: No data available for the product itself

Acute dermal toxicity: LD50:> 1,000 mg / kg. Species Rabbit. Calculation method.
Skin corrosion / irritation: moderate skin irritation
May cause sensitization of the product itself.

Chronic toxicity or prolonged exposure effects:
Carcinogenic: Not data available

Reproductive toxicity: No data available on the product itself

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Germ mutagenicity: the results of a short-term genotoxicity test bacterium on this material or its components indicate mutagenic activity

Delayed and immediate effects and conical effects of short- and long-term exposure:

This product does not contain carcinogens listed according to IARC, ACGIH, NTP and OSHA in concentrations of 0.1 percent or more.

Repeated and/or prolonged exposure to low concentrations of vapor may cause: sore throat which are transient.

Liver disorders (such as jaundice or liver enlargement), kidney disorders (such as edema or proteinuria), asthma, adverse respiratory effects such as cough, chest tightness, or difficulty breathing, skin disorders and allergies, adverse skin effects (such as rash, irritation or corrosion), adverse eye effects (such as conjunctivitis or corneal damage), eye damage.

SECTION 12: Ecological information

Ecotoxicity

Aquatic toxicity: Not available data on the product itself

Daphnia toxicity - Components:

Phenol EC50 (48 h): 4 - 7 mg / Species: Daphnia toxicity to other organisms: Not available data.

Persistence and degradability

Not Available

Bioaccumulative potential

Not Available

Mobility in the soil

Not Available

Other adverse effects

Not Available

SECTION 13: Disposal considerations

Disposal methods:

Waste from residues / unused: Contact supplier if guidance is required.

Contaminated packing: Dispose of container and unused contents in accordance with federal, and local requirements.

SECTION 14: Transport information

International Maritime Dangerous Goods (IMDG)

UN number	2735
UN proper shipping name	Polyamine, Liquid, Corrosive. N.O.S (fenalcamine)
UN transport hazard class(es)	8
Packing group	III
Label	8
Marine Pollutant	Applicable
Special Precautions for the user related to transport measures	Not Available

SECTION 15: Regulatory information

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OSHA Hazard Communication Standard Act (29 CFR 1910.1200): Corrosive

EPA SARA Title III Section 312 (40 CFR 370) Component(s) above 'de minimus' level: None.

WHMIS HAZARD Classification: Toxic material causing other toxic effects, Corrosive Material.

SECTION 16: Other information

Abbreviations and Acronyms: None

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Initial preparation date: 03/26/2020

Version #: 4

Revision Date: 3/10/2021

End of Safety Data Sheet