



## Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

### Rapid Set TXP Super Fast

#### SECTION 1: Identification

**Product identifier**

**Product name:** TXP Super Fast Part A

**Product code:**

**Recommended use of the product and restriction on use**

**Relevant identified uses:** Use for epoxy primer applications

**Uses advised against:** Not determined or not applicable.

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

**Manufacturer or supplier details**

**Manufacturer:**

**United States**

CTS Cement Manufacturing Corporation

12442 Knott St.

Garden Grove, CA 92841

800-929-3030

info@ctscement.com

**Emergency telephone number:**

**United States**

**United States**

INFOTRAC 1-800-535-5053

**International**

INFOTRAC 1-352-323-3500

#### SECTION 2: Hazard(s) identification

**GHS classification:**

Corrosion / skin irritation: Category2

Severe eye damage / irritation: Category2A

Sensitization of the skin: Category 1

Chronic aquatic toxicity: category 2

**Label elements**

**Hazard Pictograms:**



**Signal word:** Warning

**Hazard statements:**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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H319 Causes severe eye irritation.  
 H401 Toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P261 Avoid breathing dust, smoke, gas, fog, vapors, spray.  
 P264 Wash hands/eyes/mouth/skin/clothing thoroughly after handling.  
 P270 Do not eat, drink or smoke while handling this product.  
 P272 Contaminated work clothing cannot be removed from the workplace.  
 P273 Do not disperse in the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P331 Do not induce vomiting.  
 P360 Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
 P362 Take off contaminated clothing and wash before reuse  
 P363 Wash contaminated clothing before reuse.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 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; 5095-03-6	Modified epoxy resin	80-100

**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



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oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

**After inhalation:**

Move 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, both acute and delayed****Acute and delayed 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. For protective equipment in post-fire



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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:

Should not be released into the environment. Prevent from reaching drains, sewer or waterway.

#### Methods and material for containment and cleaning up:

Approach suspected leak areas with caution. Place in appropriate chemical waste container. If in solid state, contain and clean mechanically, waste according local regulations. If in liquid state, clean with inert absorbent material (sand, silica powder, etc). if possible stop the flow of the product. Material is slippery when spilled.

#### Reference to other sections:

Not determined or not applicable.

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Ensure good ventilation 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

Only those substances with limit values have been included below.

ACGIH TLV: Not available.

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

#### Appropriate engineering controls:

Ensure adequate ventilation.

#### Personal protection equipment

##### Eye and face protection:

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

**Skin and body protection:**

Wear the appropriate glove resistant to chemical products. Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection:**

Respiratory protection may be required.

**General hygienic measures:**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid; Yellow
<b>Odor</b>	Not determined
<b>Odor threshold</b>	Not available
<b>pH</b>	Not soluble.
<b>Melting point/freezing point</b>	-16°C (at 1013 hPA)
<b>Initial boiling point/range</b>	Not applicable
<b>Flash point (closed cup)</b>	Not available
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not available
<b>Upper flammability/explosive limit</b>	Not available
<b>Lower flammability/explosive limit</b>	Not available
<b>Vapor pressure</b>	4.6x10 <sup>-8</sup> Pa (at 25°C)
<b>Vapor density</b>	Not applicable
<b>Density</b>	Not available
<b>Relative density</b>	1.13 kg/L at 25°C
<b>Solubilities</b>	6.9 mg/L at 20°C - Insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto/Self-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Dynamic viscosity</b>	Not applicable
<b>Kinematic viscosity</b>	Not applicable
<b>Explosive properties</b>	Not available
<b>Oxidizing properties</b>	Not available

**Other information**

<b>VOC (Weight %)</b>	0 g/l
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#### SECTION 10: Stability and reactivity

**Reactivity:**

Does not react under normal conditions of use and storage.

**Chemical stability:**

Stable under normal conditions of use and storage.

**Possibility of hazardous reactions:**

None under normal conditions of use 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. 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 contact with strong oxidizing agent, heat, spark, and flame.

**Hazardous decomposition products:**

May produce hazardous carbon oxides, chloro hydrogen, carbon monoxide, carbon dioxide, aldehydes and flammable hydrocarbon fragments.

#### SECTION 11: Toxicological information

**Information on toxicological effects:****Acute toxicity****Assessment:**

Irritation/eye corrosion: Severe eye irritation.

Irritation/acute dermic corrosion: Severe skin irritation.

**Product data:****Substance data:**

- Oral: LS50: 3,800 mg/kg Specie: Rat

- Dermal: LD50: 8,500 mg/kg Specie: Rat

**Skin corrosion/irritation**

**Assessment:** Causes severe skin irritation.

**Product data:** No data is available.

**Substance data:** No data is available.

**Serious eye damage/irritation**

**Assessment:** Causes serious eye irritation.

**Product data:** No data is available.

**Substance data:** No data is available.

**Respiratory or skin sensitization**

**Assessment:** Sensitization has occurred in laboratory animals after repeated exposures. May cause sensitization by skin contact.

**Product data:** No data is available.



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**Substance data:** No data is available.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Specific target organ toxicity (single exposure)

**Assessment:** May cause respiratory irritation

**Product data:** No data is available.

**Substance data:** No data is available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Information on 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.

#### Symptoms related to the physical, chemical and toxicological characteristics:

No data is available.

#### Other information:

No data is available.

### SECTION 12: Ecological information

#### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Chronic (long-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

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**Rapid Set TXP Super Fast****Persistence and degradability**

Product data: No data available.

Substance data: No data available.

**Bioaccumulative potential**

Product data: No data available.

Substance data: No data available.

**Mobility in soil**

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

**SECTION 13: Disposal considerations****Disposal methods:**

Waste must be disposed of in accordance with local regulations. This product, if disposed of properly, is not a hazardous waste as specified in 40 CFR261. Contaminated packaging: Due to the empty container retaining product residues, all hazard precautions must be observed on labels. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

**SECTION 14: Transport information****United States Transportation of dangerous goods (49 CFR DOT)**

UN number	3082
UN proper shipping name	Environmentally hazardous substances, liquids, modified epoxy resin
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Maine pollutant
Special precautions for user	None

**International Maritime Dangerous Goods (IMDG)**

UN number	3082
UN proper shipping name	Environmentally hazardous substances, liquids, modified epoxy resin
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine pollutant
Special precautions for user	None

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**Rapid Set TXP Super Fast****International Air Transport Association Dangerous Goods Regulations (IATA-DGR)**

<b>UN number</b>	3082
<b>UN proper shipping name</b>	Environmentally hazardous substances, liquids, modified epoxy resin
<b>UN transport hazard class(es)</b>	9
<b>Packing group</b>	III
<b>Environmental hazards</b>	Marine pollutant
<b>Special precautions for user</b>	None

**SECTION 15: Regulatory information****United States regulations Inventory listing (TSCA):** 25068-38-6: Observational**OSHA Hazard Communication Standard Act:** No data**Chemical Safety Control Dangerous Substance Act:** Class 4, Class 3 Petroleum 2000L**Waste Control Act:** No data**California Proposition 65:** Not listed/Not regulated.**SECTION 16: Other information****Abbreviations and Acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists  
 ADR: European Road Transport  
 AU: Australia  
 CA: Canada  
 CAS: Chemical Abstracts Service  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
 CN: China  
 CPR: Controlled Products Regulations  
 DFG: Deutsche Forschungsgemeinschaft  
 DOT: Department of Transportation  
 DSL: Domestic Substances List  
 EEC: European Economic Community  
 ECHA: European Chemicals Agency  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 EPA: Environmental Protection Agency  
 EU: European Association  
 IARC: International Agency for Reach on Cancer  
 IMDG: International maritime dangerous goods code  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 JP: Japan  
 COD: Chemical Oxygen Demand  
 BOD5: 5-day biochemical oxygen demand  
 BCF: Bioconcentration factor  
 LD50: Lethal Dose 50

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CL50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol-water partition coefficient  
Koc: Partition coefficient of organic carbon  
Kow: Octanol/water partition coefficient  
KR: Korea  
LEL: Lower Explosive Limit  
UEL: Upper Explosive Limit  
NIOSH: National Institute for Occupational Safety and Health Administration  
PH: Philippines  
RCRA: Resource Conservation and Recovery Act  
OSHA: Occupational Safety and Health Administration  
RID: European Rail Transport  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Transportation of Dangerous Goods  
TSCA: Toxic Substances Control Act  
TWA: Time Weighted Average  
US: United States

**Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**Initial preparation date:** 05/04/22**Version #:** 1**Revision Date:** -/-/-**End of Safety Data Sheet**



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### Rapid Set TXP Super Fast

#### SECTION 1: Identification

**Product identifier**

**Product name:** TXP Super Fast Part B

**Product code:**

**Recommended use of the product and restriction on use**

**Relevant identified uses:** Use for epoxy primer applications

**Uses advised against:** Not determined or not applicable.

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

**Manufacturer or supplier details**

**Manufacturer:**

**United States**

CTS Cement Manufacturing Corporation

12442 Knott St.

Garden Grove, CA 92841

800-929-3030

info@ctscement.com

**Emergency telephone number:**

**United States**

INFOTRAC 1-800-535-5053

**International**

INFOTRAC 1-352-323-3500

#### SECTION 2: Hazard(s) identification

**GHS classification:**

Skin corrosion - Category 1B

Skin sensitization - Category 1

Serious Eye Damage - Category 1

Acute inhalation toxicity: Category 4

Germ cell mutagenicity- Category 2

Chronic aquatic toxicity- Category 2

**Label elements**

**Hazard Pictograms:**



**Signal word:** Danger

**Hazard statements:**

H314 Harmful in contact with skin.

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

**Precautionary statements:**

- P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breath dust/fume/gas/mist/vapor/spray.  
 P261 Avoid breathing dust, smoke, gas, fog, vapors, spray.  
 P264 Wash hands/eyes/mouth/skin/clothing thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing cannot be removed from the workplace.  
 P273 Do not disperse in the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P333+P311: If skin irritation or rash occurs: Get medical advice/attention.  
 P363 Wash contaminated clothing before reuse.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 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: 8007-24-7	Cashew nut liquid	10-25
CAS number: 90-72-2	Tris (dimethylamidomethyl) Phenol	<4
CAS number: 1477-55-0	1,3-Bis (amidomethyl)benzene	<4
CAS number: 108-95-2	Phenol	<2
CAS number: 109-55-7	3-Aminopropyldimethylamine	1-2

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CAS number: Trade secret	Proprietary ingredient	45-55
CAS number: Not available	Aliphatic amine	15-25

**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 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, both acute and delayed****Acute and delayed 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.



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#### SECTION 5: Firefighting measures

##### Extinguishing media

###### Suitable extinguishing media:

Alcohol-resistant foam. Carbon dioxide. Dry chemical. Dry sand. Limestone powder.

###### Unsuitable extinguishing media:

Do not use direct water stream. May spread fire.

##### 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 watercourses. 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 watercourses.

#### 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:

Should not be released into the environment. If spilled, construct a dike to prevent spread. Prevent from reaching drains, sewer or waterways.

##### Methods and material for containment and cleaning up:

Approach suspected leak areas with caution. Place in appropriate chemical waste container. 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 skin and eye contact. Emergency showers and eye wash stations must be easily 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 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).

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**Rapid Set TXP Super Fast****SECTION 8: Exposure controls/personal protection**

Only those substances with limit values have been included below.

ACGIH TLV: Not available.

**Biological limit values:**

No biological exposure limits noted for the ingredient(s).

**Information on monitoring procedures:**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

**Appropriate engineering controls:**

Provide readily accessible eyewash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits. Normal room ventilation is enough, however, mechanical ventilation provides better results. Ensure adequate ventilation.

**Personal protection equipment****Eye and face protection:**

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

**Skin and body protection:**

Wear the appropriate glove resistant to chemical products. Wear appropriate clothing to prevent any possibility of skin contact, examples such as rubber or plastic boots, slicker suit. Waterproof chemical resistant gloves must be worn at all times. Use neoprene, butyl rubber or plastic gloves.

**Respiratory protection:**

Wear an appropriate respirator when ventilation is inadequate. Respiratory protection may be required.

**General hygienic measures:**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid; Amber
<b>Odor</b>	Ammoniacal
<b>Odor threshold</b>	Not available
<b>pH</b>	10
<b>Melting point/freezing point</b>	Not available
<b>Initial boiling point/range</b>	230°C
<b>Flash point (closed cup)</b>	Not available
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not available
<b>Upper flammability/explosive limit</b>	Not available

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<b>Lower flammability/explosive limit</b>	Not available
<b>Vapor pressure</b>	0.2 mm Hg
<b>Vapor density</b>	Not applicable
<b>Density</b>	Not available
<b>Relative density</b>	0.99 kg/L at 25°C
<b>Solubilities</b>	Not available
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto/Self-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Dynamic viscosity</b>	650 cP at 25°C
<b>Kinematic viscosity</b>	Not applicable
<b>Explosive properties</b>	Not available
<b>Oxidizing properties</b>	Not available

**Other information**

<b>VOC (Weight %)</b>	0 g/l
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**SECTION 10: Stability and reactivity****Reactivity:**

Does not react under normal conditions of use and storage.

**Chemical stability:**

Stable under normal conditions of use and storage.

**Possibility of hazardous reactions:**

None under normal conditions of use and storage.

**Conditions to avoid:**

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.

**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 contact with strong oxidizing agent, heat, spark, and flame.

**Hazardous decomposition products:**

Nitric acid. Ammonia. Nitrogen oxides(NO<sub>x</sub>). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Aldehydes. Flammable hydrocarbon fragments.



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#### SECTION 11: Toxicological information

##### Information on toxicological effects:

##### Acute toxicity

###### Assessment:

Irritation/eye corrosion: Severe eye irritation.

Irritation/acute dermic corrosion: Severe skin irritation.

###### Product data:

###### Substance data:

- Oral: LD50: 2,200 mg/kg Specie: Rat

- Dermal: LD50: 1,000 mg/kg Specie: Rabbit. Calculation method.

##### Skin corrosion/irritation

**Assessment:** Causes moderate skin irritation.

**Product data:** No data is available.

**Substance data:** No data is available.

##### Serious eye damage/irritation

**Assessment:** Causes serious eye irritation.

**Product data:** No data is available.

**Substance data:** No data is available.

##### Respiratory or skin sensitization

**Assessment:** May cause respiratory irritation. Inhalation of vapor and aerosol in high concentration may cause irritation of the respiratory system. 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.

**Product data:** No data is available.

**Substance data:** No data is available.

##### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

##### Germ cell mutagenicity

**Assessment:** The results of a short-term genotoxicity test bacterium on this material or its components indicate mutagenic activity.

**Product data:** No data is available.

**Substance data:** No data is available.

##### Reproductive toxicity

**Assessment:** No data available on the product itself.

**Product data:** No data is available.

**Substance data:** No data is available.

##### Specific target organ toxicity (single exposure)



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**Assessment:** May cause respiratory irritation

**Product data:** No data is available.

**Substance data:** No data is available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Information on 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.

#### Symptoms related to the physical, chemical and toxicological characteristics:

No data is available.

#### Other information:

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

#### Acute (short-term) toxicity

**Assessment:** Not available on the product itself.

**Product data:** No data available.

**Substance data:**

##### Daphnia toxicity – Components

**Phenol EC50 (48h):** 4-7 mg / species: Daphnia toxicity to other organisms: No available data.

#### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

#### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

#### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

#### Mobility in soil

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Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

**SECTION 13: Disposal considerations****Disposal methods:**

Waste must be disposed of in accordance with local regulations. This product, if disposed of properly, is not a hazardous waste as specified in 40 CFR261. Contaminated packaging: Due to the empty container retaining product residues, all hazard precautions must be observed on labels. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

**SECTION 14: Transport information****United States Transportation of dangerous goods (49 CFR DOT)**

UN number	2735
UN proper shipping name	Polyamines, liquid, corrosive, n.o.s. (fenalcamine)
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	Maine pollutant
Special precautions for user	None

**International Maritime Dangerous Goods (IMDG)**

UN number	2735
UN proper shipping name	Polyamines, liquid, corrosive, n.o.s. (fenalcamine)
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	Marine pollutant
Special precautions for user	None

**International Air Transport Association Dangerous Goods Regulations (IATA-DGR)**

UN number	2735
UN proper shipping name	Polyamines, liquid, corrosive, n.o.s. (fenalcamine)
UN transport hazard class(es)	8
Packing group	III
Environmental hazards	Marine pollutant
Special precautions for user	None



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#### SECTION 15: Regulatory information

**National Inventory TSCA:** Ingredients of this mixture are included on the TSCA inventory.

**OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es):** Corrosive

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

**WHIMIS HAZARD Classification:** Toxic material causing other toxic effects, corrosive material.

**California Proposition 65:** Not listed/Not regulated.

#### SECTION 16: Other information

##### Abbreviations and Acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR: European Road Transport  
AU: Australia  
CA: Canada  
CAS: Chemical Abstracts Service  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
CN: China  
CPR: Controlled Products Regulations  
DFG: Deutsche Forschungsgemeinschaft  
DOT: Department of Transportation  
DSL: Domestic Substances List  
EEC: European Economic Community  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances  
EPA: Environmental Protection Agency  
EU: European Association  
IARC: International Agency for Research on Cancer  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
JP: Japan  
COD: Chemical Oxygen Demand  
BOD5: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
CL50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol-water partition coefficient  
Koc: Partition coefficient of organic carbon  
Kow: Octanol/water partition coefficient  
KR: Korea  
LEL: Lower Explosive Limit  
UEL: Upper Explosive Limit  
NIOSH: National Institute for Occupational Safety and Health Administration  
PH: Philippines  
RCRA: Resource Conservation and Recovery Act  
OSHA: Occupational Safety and Health Administration



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RID: European Rail Transport  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Transportation of Dangerous Goods  
TSCA: Toxic Substances Control Act  
TWA: Time Weighted Average  
US: United States

#### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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**End of Safety Data Sheet**