Safety Data Sheet

1 IDENTIFICATION

Product identifier	CTS TXP FAST PART A
Other means of identification	
Product code	185040000
Recommended use	Industrial use
Recommended restrictions	TXP Fast is packaged in pre-measured kits. **Proper proportioning and homogenization are absolutely critical for success. Do not attempt to hand mix.** Use only with adequate ventilation.
Manufacturer/Importer/Supplier/Distributor information	
Company name	CTS Cement Manufacturing Corporation
Address	11065 Knott Ave Suite A Cypress, CA 90630 United States
Telephone	1-800-929-3030
E-mail	info@ctscement.com
Contact person	Safety Officer
Emergency telephone number	1-800-929-3030 (8 AM - 5 PM)

2 HAZARDS IDENTIFICATION

Health Hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Skin Sensitization	Sub-category 1B
	Acute aquatic toxicity	Category 2
	Chronic aquatic toxicity	Category 2

Label elements

Pictogram(s):

Signal Word Warning!

Hazard statement	H315+H320: Can cause eye and skin irritation and sensitization H317: May cause allergic skin reaction H335: May cause respiratory tract irritation H351: Suspected of causing cancer H411: Toxic to aquatic life with long lasting effects
Precautionary statement	
Prevention	P261: Avoid breathing dust/fume/gas/mist/vapors/spray P264: Wash skin 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
Response	P302+P352: **IF ON SKIN:** Wash with plenty of soap and water P305+P351+P338: **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P333+P313: If skin irritation or rash occurs: get medical advice/attention P337+P313: If eye irritation persists: get medical advice/attention P361+P364: Take off contaminated clothing and wash before reuse P391: collect spillage
Disposal	P501: Dispose of contents/container to an approved waste disposal plant
Hazard(s) not otherwise classified (HNOC)	No data available

3 COMPOSITIONS/INFORMATION ON INGREDIENTS

Mixtures

Chemical name	CAS number	Concentration
4,4'-isopropyldiphenol-epichlorohydrin copolymer	025068-38-6	60 - 100
Titanium dioxide	013463-67-7	15 - 40
Benzyl alcohol	000100-51-6	5 - 10
O-cresyl glycidylether	002210-79-9	1 - 5

4 FIRST-AID MEASURES

Inhalation	Move to fresh air. Give assisted respiration if breathing has stopped or is labored (call a physician).
Skin contact	Remove product and flush affected area with water for 15 minutes. If irritation persists get medical attention.
Eye contact	Flush with water for 15 minutes. Get medical attention.
Ingestion	Give 3 – 4 glasses of water or milk if person conscious. **DO NOT INDUCE VOMITING!** Obtain medical care and treatment.
General information	Remove person from affected area and make comfortable. Treat symptomatically.

5 FIRE-FIGHTING MEASURES

OSHA Class	Not Regulated
Suitable extinguishing media	Ignition may give rise to a Class B fire. In case of fire use: water fog, carbon dioxide, dry chemical, alcohol foam.
Unsuitable extinguishing media	None
Specific hazards arising from the chemical	CO, CO_2, aldehydes, acids
Special protective equipment	Wear self-contained breathing apparatus and protective clothing.
Fire fighting equipment/instructions	Water spray is useful in cooling fire-exposed vessels and in dispersing vapors.
Specific methods	N/A
General fire hazards	May generate toxic or irritating combustion products. Sudden reaction and fire may result if product is mixed with an oxidizing agent.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Shut off sources of ignition. Avoid skin contact. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to fumes at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Cover spills with absorbent materials. Place in metal containers for recovery or disposal.
Environmental precautions	Prevent entry into sewers, storm drains, and waterways.

7 HANDLING AND STORAGE

Precautions for safe handling	Store in cool, well ventilated areas. Keep away from heat and open flames. Avoid prolonged inhalation of heated vapors or mists. Avoid prolonged skin contact.
Conditions for safe storage, including any incompatibilities	Avoid temperature extremes. Store away from excessive heat, from sources of ignition and from reactive materials.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components (CAS)	Type	Value	Form
025068-38-6	TWA	Not established	
	STEL	Not established	
013463-67-7	TWA	10mg/m^3	VALUES MEANINGFUL ONLY WHEN HARDENED PRODUCT IS ABRADED, GROUND, ETC.
	STEL	No data	
000100-51-6	TWA	Not established	
	STEL	Not established	
002210-79-9	TWA	Not established	
	STEL	Not established	

US. ACGIH Threshold Limit Values

Components (CAS)	Type	Value	Form
025068-38-6	TWA	Not established	
	STEL	Not established	
013463-67-7	TWA	10mg/m^3	VALUES MEANINGFUL ONLY WHEN HARDENED PRODUCT IS ABRADED, GROUND, ETC.
	STEL	No data	
000100-51-6	TWA	Not established	
	STEL	Not established	
002210-79-9	TWA	Not established	
	STEL	Not established	

Appropriate engineering controls No specific controls needed. General and local exhaust recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Splash-proof goggles or chemical safety glasses

Skin protection

Hand protection Nitrile rubber gloves

Other Long sleeved shirts and trousers. Emergency showers and eye wash stations should be readily accessible.

Respiratory protection None required in adequately ventilated areas. If vapor concentration exceeds 20ppm for longer than 15 minutes, a NIOSH approved respirator for organic vapors is recommended.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Liquid

Color White

Odor Mild

Odor threshold	No data
pH	Not applicable
Melting point/freezing point	No data
Initial boiling point and boiling range	>120°C (199°F)
Flash point	93°C (199°F) TCC
Flammability (solid, gas)	Not combustible
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	No data
Flammability limit – upper (%)	No data
Vapor pressure	< 0.13 kPA @ 20°C (68°F)
Vapor density	No data (Air = 1)
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	No data
Decomposition temperature	No decomposition if stored and handled as prescribed/indicated
Mixed Viscosity	800 cps @ 77°F
Other information	
Partition coefficient (oil/water)	No data
VOC (weight %)	0%
VOC as part of multi-component system	0 g/L

10 STABILITY AND REACTIVITY

Chemical stability	Stable
Conditions to avoid	Not applicable (material is stable)
Incompatible materials	Oxidizing agents (perchlorates, nitrates), strong acids, hypochlorites, peroxides.
Hazardous decomposition products	
Decomposition products	CO, CO_2

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	**ACUTE ORAL TOXICITY** Very low toxicity if swallowed. harmful effects not anticipated from swallowing small amounts LD50, RAT >15,000 mg/kg **ACUTE DERMAL TOXICITY** Prolonged skin contact is unlikely to result in absorption of harmful amounts LD50, RABBIT 23,000 mg/kg **ACUTE INHALATION TOXICITY** At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation. LC50 has not been determined
Skin corrosion/irritation	Prolonged contact may cause skin irritation with local redness Repeated contact may cause skin irritation with local redness
Serious eye damage/eye irritation	May cause eye irritation Corneal injury is unlikely
Respiratory or skin sensitization	
Respiratory sensitization	No relevant data found
Skin sensitization	Has caused allergic skin reactions in humans Has demonstrated the potential for contact allergy in mice
Carcinogenicity	The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.
IARC Monographs. Overall Evaluation of Carcinogenicity	2B
NTP Report on Carcinogens	None
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	None
Specific target organ toxicity – single exposure	Evaluation of available data suggests this material is not an STOT-SE toxicant

Specific target organ toxicity – repeated exposure	Except for skin sensitization repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects

Teratogenicity: No
Embryotoxicity: No

Mutagenicity: No
Synergistic material: No

12 ECOLOGICAL INFORMATION

Ecotoxicity

ACUTE TOXICITY TO FISH
Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/l in the most sensitive species tested)
LC50, oncorhynchus mykiss (rainbow trout), semi-static test. 96 HR, 2 mg/l

ACUTE TOXICITY TO AQUATIC INVERTEBRATES
EC50, daphnia magna (water flea), static test, 48 HR, 1.8 mg/l

ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS
ErC50, scenedesmus capricornutum (fresh water algae), static test, 72 HR, growth rate inhibition 11mg/L

TOXICITY TO BACTERIA
IC50, bacteria, 18 HR, respiration rates > 42.6 mg/l

CHRONIC AQUATIC TOXICITY
CHRONIC TOXICITY TO AQUATIC INVERTEBRATES
MATC (maximum acceptable toxicant level), daphnia magna, semi static test, 21 D, number of offspring, 0.55 mg/l

Persistence and degradability

BIODEGARADABILITY: Based on stringent OECD test guidelines, this material cannot be considered readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.
10 day window: NA

BIODEGRADATION: 12%

EXPOSURE TIME: 28 days

METHOD: OECD test guideline 302B or equivalent

THEORETICAL OXYGEN DEMAND: 2.35 mg/mg estimated

PHOTODEGRADATION

TEST TYPE: HALF-LIFE (Indirect photolysis)

SENSITIZER: OH radicals

ATMOSPHERIC HALF-LIFE: 1.92 HR

METHOD: Estimated

Bioaccumulative potential	**BIOACCUMULATION:** Bioconcentration potential is moderate (BCF between 100 and 3000 or LOG POW between 3 and 5) **PARTITION COEFFECIENT: N-OCTANOL/WATWER(LOG POW):** 3.242 @25°C estimated
Mobility in soil	Potential for mobility in soil is low (Koc between 500 AND 2000) given its very low Henry's constant, volatization from natural bodies of water or moist soil is not expected to be an important fate process **PARTITION COEFFICIANT (Koc):** 1800-4400 estimated
Other adverse effects	Not applicable

13 DISPOSAL CONSIDERATIONS

Disposal instructions	Not a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with all federal, state and local regulations.

14 TRANSPORT INFORMATION

USDOT	Resin compound, not regulated	
HAZARD CLASS: NA	**UN NUMBER:** NA	**PACKING GROUP:** NA
IATA	UN 3082 environmentally hazardous substance, liquid N.O.S. (epoxy resin) , 9, PGIII	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	UN 3082 environmentally hazardous substance, liquid N.O.S. (epoxy resin) , 9, PGIII	

15 REGULATORY INFORMATION

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not data

CERCLA Hazardous Substance List (40 CFR 302.4)

No data

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard – No
Pressure Hazard – No
Reactivity Hazard - No

SARA 311/312 Hazardous chemical

Acute

SARA 313 (TRI reporting)

None above de Minimus levels

US state regulations

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): CAS # 013463-67-7

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

16 OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF LAST REVISION

Issue date	12 November 2015
Revision date	7 September 2016
Version #	01
HMIS® ratings	Health: 1 Flammability: 1 Reactivity: 2
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