



Fast Set Epoxy Crack Filler Safety Data Sheet

SDS Revision Date: 5/5/2023

1. Product and Company Identification

Product Name	Fast Set Epoxy Crack Filler
Product Codes	Fast Set Epoxy Crack Filler
Manufacturer	Concrete Floor Solutions, Inc.
Street Address	6801 Tilghman Street #113
City, State, Zip	Allentown, PA 18106
Information Phone	610-366-0208
Emergency Phone	Chemtrec 800-424-9300
Prepared By	Jason Kehnel
Date Revised	5/5/2023
Chemical Name or Class	Diisocyanate/Solvent Mixture

2. Hazards Identification

GHS Classification: Flammable liquid category 3, respiratory sensitization category 1B, skin sensitizer category 1, specific target organ toxicity following repeated exposure category 2, aspiration hazard category 1, skin corrosion/irritation category 2, serious eye irritation category 2A, acute toxicity inhalation category 3, carcinogenicity category 2, specific target organ toxicity - single exposure category 3, germ cell mutagenicity category 1B, acute hazard to aquatic environment category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Flame, Health Hazard, Exclamation Mark, Skull and Crossbones



Hazard Statements:

Warning: Flammable liquid and vapor.

Danger: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Warning: May cause an allergic skin reaction.

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Warning: May cause damage to organs (liver, kidney, nervous system) through prolonged or repeated exposure

Danger: May be fatal if swallowed and enters airways.

Warning: Causes skin irritation

Warning: Causes serious eye irritation

Danger: Toxic if inhaled.

Warning: Suspected of causing cancer

Warning: May cause respiratory irritation.

Danger: May cause genetic defects.

Harmful to aquatic life.

Precautionary statements:

P102 Keep out of reach of children.

P103 Read label before use

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P284 Wear respiratory protection.

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

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

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P264 Wash hands thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

P370 + P378 In case of fire: Use FOAM, ALCOHOL FOAM, CO2 for extinction.

P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

P314 Get medical advice/attention if you feel unwell

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P362 + P364 take off contaminated clothing and wash it before reuse.

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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.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P311 Call a POISON CENTER or doctor/physician.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

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

P233 Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

HMIS Hazard Classification

Health: 2 Flammability: 2 Reactivity: 1 Personal Protective Equipment: G

Potential Health Effects

Eyes: Will cause burns to the eyes. High vapor concentrations can cause severe irritation to the eyes.

Skin: Can cause skin irritation or possible burns to the skin.

Ingestion: Liquid can cause severe damage to mucous membranes if swallowed.

Inhalation: High concentrations of vapor can cause irritation to the respiratory tract, nausea, and dizziness.

Health hazards (acute and chronic): Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses. Can cause sensitization by exposure through contact or high concentration of vapor. Over exposure to this material can cause cardiac abnormalities, anemia, liver abnormalities, kidney damage, or even eye damage. Can cause asthma or other respiratory disorders, bronchitis, emphysema, hyperactivity, and eczema.

Medical Conditions Generally Aggravated by Exposure: Respiratory conditions or other allergic ailments.

Carcinogenicity

OSHA: No

NTP: Yes

IARC: Yes

Additional carcinogenicity information: Product may contain ethyl benzene as a component of Aromatic Petroleum Distillates (IARC 2B)

3. Composition/Information on Ingredients

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Ingredient	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	Weight %
Higher Oligomers of MDI	9016-87-9	NONE	NONE	NONE	40-70
*4,4-Diphenylmethane Diisocyanate	101-68-8	NONE	.005 PPM	0.02 PPN	30
Aromatic Petroleum Distillates	64742-85-6	100 PPM	100 PPM	NONE	15-40
*Cumene (as a component of 64742-95-6)	98-82-8	50 PPM	50 PPM	NONE	<1
*1,2,4-Trimethylbenzene (as a component of 64742-95-6)	95-63-6	25 PPM	NONE	NONE	<21
*Ethyl Benzene (as a component of 64742-95-6)	100-41-4	100 PPM	100 PPM	125 PPM	<0.39
*Xylene (as a component of 64742-95-6)	1330-20-7	100 PPM	100 PPM	150 PPM	<2

SECTION 3 NOTES: *Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

4. First Aid Measures

Eyes: Immediately flush with large amounts of water for at least 15 minutes while lifting upper and lower lids. Get immediate medical assistance.

Skin: Flush skin with water for at least 15 minutes and remove all contaminated clothing immediately. Get medical attention if reddening or swelling occurs.

Ingestion: Do not induce vomiting. Dilute by giving water or milk to drink if the victim is conscious. Get medical attention immediately.

Inhalation: Remove to fresh air if effects persist and administer oxygen if necessary.

5. Fire Fighting Measures

Flammable limits in air (% by volume)	Upper: 7.0 Lower: 0.4
Flash point	199F
Method used	SETA FLASH
Extinguishing media	Foam, Alcohol Foam, CO2
Special fire fighting procedures	Toxic fumes will be evolved when this material is involved in a fire. A self-contained breathing apparatus should be available for fire fighters.

Unusual fire and explosion hazards None known.

6. Release Measures

Steps to be taken in case material is released or spilled - Avoid contact with material. Wear the appropriate safety equipment. Stop spill at source, dyke area to prevent spreading. Pump liquid to salvage tank. Take up the remainder with clay or other absorbent and place in disposal containers.

7. Handling and Storage

Precautions to be taken in handling and storage - Avoid all skin contact. Avoid breathing vapors. Reseal partially used containers. Properly label all containers. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Observe conditions of good industrial hygiene and safe working practices.

Other precautions - Mixed materials contain the hazards of all the components, therefore, read the MSDS of all components to become familiar with all hazards prior to using this product.

8. Exposure Controls/Personal Protection

Respiratory protection - NIOSH approved respirator required in the absence of proper environmental controls. For emergencies a self-contained breathing apparatus or a full face respirator is recommended.

Ventilation - Avoid breathing vapors. Ventilation must be sufficient to control vapors.

Protective gloves - Impervious gloves, neoprene or rubber.

Eye protection - Splash goggles or glasses with side shields.

Other protective clothing or equipment - Clean body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material.

Work hygienic practices - Observe good general hygienic practices.

See Section 3 for occupational exposure limit values

9. Physical and Chemical Properties

Appearance and Odor - Dark amber liquid with aromatic solvent odor

Boiling Point or Range - N/A

Vapor Density (Air = 1) - N/A

Specific Gravity (H₂O = 1) - 1.1

Evaporation Rate - N/A

Solubility in Water - Negligible

Odor Threshold - N/A

pH - N/A

Melting Point/Freezing Point - N/A
Vapor Pressure - N/A
Auto Ignition Temperature - N/A
Partition Coefficient: n-octanol/water - N/A
Decomposition Temperature- N/A

10. Stability and Reactivity

Stability - stable

Conditions to Avoid (Stability) - avoid contact with open flames and all sources of ignitions and sparks

Incompatibility (Material to Avoid) - avoid contact with strong oxidizing agents, mineral acids, and epoxy resins in uncontrolled amounts.

Hazardous Decomposition or By-Products - CO, CO₂, NOX

Hazardous Polymerization - will not occur

11. Toxicological Information

No data for the product itself.

Component data:

Component CAS# 64742-95-6 Tests on similar materials show a low order of acute oral and dermal toxicity. May cause eye irritation, may cause irritation on skin and mucous membranes.

Component Ethyl Benzene (a minor component of CAS# 64742-96-6): Acute Oral toxicity LD50: ca. 3500 mg/kg (rat); Acute inhalation LC50: 17.2 mg/l 4h (rat); Acute Dermal Toxicity: 17,800 mg/kg (rabbit); Skin Irritation rabbit Draize exposure time 24h – slightly irritating. Eye Irritation rabbit Draize – severely irritating. Sensitization dermal (human patch test) non-sensitizer. Repeated Dose toxicity 28 days inhalation NOAEL: 3.4 mg/l (rabbit).

Mutagenicity Genetic Toxicity in Vitro: Ames: Negative (salmonella typhimurium, metabolic activation with/without). Carcinogenicity: Ethyl benzene was tested by inhalation exposure in mice and rats. In mice, there was an increased incidence of lung adenomas in males and liver adenomas in females. In male rats, there was an increased incidence of renal tubule adenomas and carcinomas. Two Studies of workers potentially exposed to ethyl benzene in a production plant and a styrene polymerization plant, showed no excess cancer incidence and no excess cancer mortality during a 15 year follow-up. Toxicity to Reproduction/Fertility: Inhalation (monkey, male) Reproductive effects have been observed in animal studies, In a generation study, inhalation (rat/female) NOAEL (parental): 100 ppm NOAEL (F2): 100 ppm.

Developmental Toxicity/Teratogenicity rat, female, inhalation, gestation, daily, NOAEL (teratogenicity): 100 ppm (maternal): 100 ppm. Teratogenic effects seen only with maternal toxicity., Fetotoxicity seen only with maternal toxicity. Rabbit, female, inhalation, gestation, daily, NOAEL (teratogenicity) < 1000 mg/m³, NOAEL (maternal) < 1000 mg/m³.

Component Xylene (a minor component of CAS# 64742-95-6): Inhalation LC50 26800ppm, Skin LD50 2000 mg/kg, Ingestion LD50 4.3 g/kg. Exposure may affect skin, eye, liver, kidney,

nervous system, respiratory system and lungs. High concentrations may lead to nervous system effects. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Component Cumene(a minor component of CAS# 64742-95-6): IARC has classified Cumene as possibly Carcinogenic to humans (group 2B).

Component CAS# 95-63-6: Oral LD50 (rat) = 5000 mg/kg. Inhalation LC50 (rat) -4h = 18000 mg/m³.

Component HIGHER OLIGOMERS OF MDI CAS# 9016-87-9 and *4,
4-DIPHENYLMETHANE DIISOCYANATE CAS# 101-68-8: (data based on a similar product)
The oral LD50 for rats is greater than 10,000 mg/kg. Skin: The LD50 for skin absorption in rabbits is greater than 9,400 mg/kg. Mutagenicity: Mutagenicity data on the MDI are inconclusive. MDI was weakly positive in some in vitro (test tube) studies; other in vitro studies were negative. A mutagenicity study in animals was negative. Ingestion: Ingestion of this product causes vomiting, nausea and abdominal pain. Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations. The oral LD50 for rats is >10,000 mg/kg. Eye: May cause slight eye irritation. Corneal injury is unlikely. Skin:

Prolonged or repeated exposure may cause skin irritation. May stain the skin. Skin contact may result in allergic skin reactions or respiratory sensitisation but is not expected to result in absorption of amounts sufficient to cause other adverse effects. The LD50 for skin absorption in rabbits is >9400 mg/kg. CANCER INFORMATION: Lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/Polymeric MDI (6mg/m³) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure standards are expected to protect against these effects.SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to MDI/Polymeric MDI aerosols. TERATOLOGY (BIRTH DEFECTS): In laboratory animals, Polymeric MDI did not produce birth defects, other fetal effects occurred only at high doses, which were toxic to the mother.

12. Ecological Information

No data for the product itself.

Component data:

Component CAS# 64742-95-6 Toxic to aquatic organisms.

Component Ethyl Benzene (a minor component of CAS# 64742-95-6): Biodegradation, Aerobic, 50%, Exposure time 28 days. Biochemical Oxygen demand (BOD) 5 days, 2.8% and 35 days, 1780 mg/g. Bioaccumulation: Cyprinus carpio (Carp), 15 BCF. Acute and Prolonged Toxicity to Fish LC50: 12.1 mg/l (fathead minnow, 96 h). Acute Toxicity to Aquatic Invertebrates EC50: 1.8-2.9 mg/l (water flea, 48 h). Toxicity to Aquatic Plants EC50: 4.6 mg/l (green algae, 72 h). Toxicity to microorganisms EC50: 130 mg/l (activated sludge microorganisms, 48 hr).

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Component Xylene (a minor component of CAS# 64742-95-6): Acute Toxicity: Fish: Toxic 1 < LCECIC50 < 10 mg/l, Aquatic Invertebrates: Toxic 1 < LC/EC/IC50 <10 mg/l, Algae: Toxic 1 < LC/EC/IC50 <10 mg/l. Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air.

Component Cumene (a minor component of CAS# 64742-95-6): LC50 (fish) 1-10 mg/l.

Component CAS# 95-63-6: Toxicity to fish LC50 (fathead minnow) 7.72 mg/l 96 hr. Toxicity to daphnia and other aquatic invertebrates: Immobilization EC50 (water flea) 3.6mg/l 48hr.

Component HIGHER OLIGOMERS OF MDI CAS# 9016-87-9 and *4,
4-DIPHENYLMETHANE DIISOCYANATE CAS# 101-68-8: (data based on a similar product)

Movement in the environment is expected to be limited by the formation of insoluble polymers.

Biodegradation is not applicable (for the isocyanate itself). Material is expected to biodegrade only very slowly. Fails to pass OECD modified MITI test; hydrolysis products degrade slowly.

Degradation is expected in the atmospheric environment. Ecotoxicity: Material is practically non-toxic to aquatic organisms on an acute basis (LD50 greater than 100 mg/l in most sensitive species).

13. Waste Disposal

Waste Disposal Method: Dispose of material as a hazardous waste in accordance with local, state, and federal law.

14. Transport Information

DOT: Not Regulated

IMO/IMDG: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS Aromatic Petroleum Distillates), 9, PGIII, Marine Pollutant

15. Regulatory Information

No data for the product itself.

Component data:

Component CAS# 64742-95-6 This product is a hazardous chemical . This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372 Component 1,2,4-trimethylbenzene CAS# 95-63-6 at < 42% and xylene CAS# 1330-20-7 at < 3.0%, Cumene CAS# 98-82-8 at < 2%, and Ethylbenzene CAS# 100-41-4 at < 0.40%.. This component contains chemicals on the California Proposition 65 list that may cause cancer or reproductive harm.

Component is on the TSCA list as well as the AICS, DSL, ECL, EINECS, ENCS, IECSC and PICCS lists

Component Ethyl Benzene (a minor component of CAS# 64742-95-6): US EPA CERCLA Hazardous Substances (40 CFR 302): Ethyl Benzene reportable quantity 1000 lbs. US EPA Emergency Planning and Community Right to Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.5) components, Ethyl Benzene. California Prop 65: This product

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contains chemicals known to the State of California to be carcinogenic: Ethylbenzene CAS# 100-41-4 @ 0.39% Massachusetts, New York, Pennsylvania Right to Know list includes the following components: Ethylbenzene CAS# 100-41-4. Massachusetts, New York, Pennsylvania Special hazardous Substance includes the following components: Ethylbenzene CAS# 100-41-4 Component Xylene (a minor component of CAS# 64742-95-6): Xylene contains EPCRA section 313 chemicals subject to the reporting requirements of the emergency planning and community right to know act of 1968. Xylene and its components are on the California Proposition 65 list for developmental toxicity, Reproductive toxicity and carcinogen list. Ingredients are on the TSCA list, DSL Canada, AICS, China, EINECS, ENCS, Korea, New Zealand, Philippines inventory lists and on the Massachusetts, New Jersey, Pennsylvania right to know lists

Component Cumene (a minor component of CAS# 64742-95-6): is a SARA 313 chemical. This component is a CERCLA chemical. This component is a California Proposition 65 Chemical which is known to cause cancer or other birth defects or reproductive harm. This component is on the New Jersey right to know list. Components are on the TSCA list and Canada DSL list.

Component CAS# 95-63-6: This component is subject to SARA Title III Section 313 reporting. This component is in the TSCA and Canada DSL Lists. This component is on the Massachusetts, Pennsylvania, New Jersey right to know lists.

Component HIGHER OLIGOMERS OF MDI CAS# 9016-87-9 and *4, 4-DIPHENYLMETHANE DIISOCYANATE CAS# 101-68-8: HAZARDOUS SUBSTANCES CLASSIFICATION: Harmful. Irritant. Sensitiser. RISK PHRASES: R20. Harmful by inhalation. R36/37/38. Irritating to eyes, respiratory system and skin. R42. May cause sensitisation by inhalation. Components are on the TSCA and Canada DSL lists.

16. Other Information

DISCLAIMER: The information Contained herein is based on the data available and is believed to be accurate, However, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

N/A = Not Available

See Section 1 for date of preparation

1. Product and Company Identification

Product Name	Fast Set Epoxy Crack Filler
Product Codes	Fast Set Epoxy Crack Filler
Manufacturer	Concrete Floor Solutions, Inc.
Street Address	6801 Tilghman Street #113
City, State, Zip	Allentown, PA 18106
Information Phone	610-366-0208
Emergency Phone	Chemtrec 800-424-9300
Prepared By	Jason Kehnel
Date Revised	5/5/2023
Chemical Name or Class	Diamine/Solvent Mixture

2. Hazards Identification

GHS Classification: Flammable liquid category 3, specific target organ toxicity following repeated exposure category 2, aspiration hazard category 1, skin corrosion/irritation category 2, serious eye irritation category 2A, acute toxicity inhalation category 3, carcinogenicity category 2, specific target organ toxicity - single exposure category 3, germ cell mutagenicity category 1B, acute hazard to aquatic environment category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Flame, Health Hazard, Exclamation Mark, Skull and Crossbones



Hazard Statements:

Warning: Flammable liquid and vapor.

Warning: May cause damage to organs (liver, kidney, nervous system) through prolonged or repeated exposure

Danger: May be fatal if swallowed and enters airways.

Warning: Causes skin irritation

Warning: Causes serious eye irritation

Danger: Toxic if inhaled.

Warning: Suspected of causing cancer

Warning: May cause respiratory irritation.

Danger: May cause genetic defects.

Harmful to aquatic life.

Precautionary statements:

- P102 Keep out of reach of children.
- P103 Read label before use
- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P264 Wash hands thoroughly after handling.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.

Response

- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
- P370 + P378 In case of fire: Use FOAM, ALCOHOL FOAM, CO2 for extinction.
- P314 Get medical advice/attention if you feel unwell
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.
- P302 + P352 IF ON SKIN: wash with plenty of soap and water.
- P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
- P362 + P364 take off contaminated clothing and wash it before reuse.
- 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.
- P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
- P311 Call a POISON CENTER or doctor/physician.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

- P403 + P235 Store in a well-ventilated place. Keep cool.
- P233 Keep container tightly closed.
- P405 Store locked up.

Disposal:

- P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

HMIS HAZARD CLASSIFICATION

Health: 2 Flammability: 2 Reactivity: 0 Personal Protective Equipment: G

Potential Health Effects

Eyes: High vapor concentrations can cause severe irritation to the eyes, nose, or throat.

Skin: Can cause skin irritation.

Ingestion: Liquid can cause severe damage to mucous membranes if swallowed.

Inhalation: High concentrations of vapor can cause irritation to the respiratory tract, nausea, and dizziness.

Health hazards (acute and chronic): Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses. Can cause sensitization by exposure through contact or high concentration of vapor. Over exposure to this material can cause cardiac abnormalities, anemia, liver abnormalities, kidney damage, or even eye damage. Can cause asthma or other respiratory disorders, bronchitis, emphysema, hyperactivity, and eczema. May cause cancer.

Medical conditions generally aggravated by exposure: Respiratory conditions or other allergic response.

Carcinogenicity

OSHA: No NTP: Yes IARC: Yes

ADDITIONAL CARCINOGENICITY INFORMATION:

Product may contain ethyl benzene as a component of Aromatic Petroleum Distillates (IARC 2B)

3. Composition/Information on Ingredients

Ingredient	CAS NO	OSHA PEL	ACGIH TLV	OSHA STEL	Weight %
Tetrahydroxypropylethylenediamine	102-60-3	NE	NE	NE	40-70
Aromatic Petroleum Distillates	64742-95-6	100 PPM	100 PPM	NONE	30-60
*Cumene (as a component of 64742-95-6)	98-82-8	50 PPM	50 PPM	NONE	<1
*1,2,4-Trimethylbenzene (as a component of 64742-95-6)	95-63-6	25 PPM	NONE	NONE	<21
*Ethyl Benzene (as a component of 64742-95-6)	100-41-4	100 PPM	100 PPM	125 PPM	<0.39

*Xylene (as a component of 64742-95-6)	1330-20-7	100 PPM	100 PPM	150 PPM	<2
Solvent Dye	N/A	NONE	NONE	NONE	<1

*INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

4. First Aid Measures

Eyes: immediately flush with large amounts of water for at least 15 minutes while lifting upper and lower lids. Get immediate medical assistance.

Skin: flush skin with water for at least 15 minutes and remove all contaminated clothing immediately. Get medical attention if reddening or swelling occurs.

Ingestion: do not induce vomiting. Dilute by giving water or milk to drink if the victim is conscious. Get medical assistance immediately.

Inhalation: remove victim to fresh air if effects persist and administer oxygen if necessary.

5. Fire Fighting Measures

Flammable limits in air, (% by volume)	Upper: 7.0 Lower: 1.1
Flash point:	145F
Method used:	Seta flash
Extinguishing media:	Foam, alcohol foam, co2
Special fire fighting procedures:	Toxic fumes will be evolved when this material is involved in a fire. Self-contained breathing apparatus should be available for fire fighting. Cool fire exposed containers with water.
Unusual fire and explosion hazards:	None known.

6. Release Measures

Avoid contact with material. Wear the appropriate safety equipment. Stop spillage at source, dyke area to prevent spreading. Pump liquid to salvage tank. Take up the remainder with clay or other absorbent and place in disposal containers.

7. Handling and Storage

Precautions To Be Taken In Handling And Storage: Avoid all skin contact. Avoid breathing vapors. Reseal partially used containers. Properly label all containers. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Observe conditions of good industrial hygiene and safe working practices.

Other Precautions: Mixed materials contain the hazards of all the components, therefore, read the MSDS of all components to become familiar with all hazards prior to using this product.

8. Exposure Controls/Personal Protection

Respiratory protection: NIOSH approved respirator protection required in the absence of proper environmental controls. For emergencies a self-contained breathing apparatus or a full face respirator is recommended.

Ventilation: avoid breathing vapors. Ventilation must be sufficient to control vapors.

Protective gloves: impervious gloves, neoprene or rubber

Eye protection: splash goggles or glasses with side shields.

Other protective clothing or equipment: clean body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material.

Work hygienic practices: observe good general hygienic practices.

See section 3 for occupational exposure limit values

9. Physical and Chemical Properties

Appearance and odor: Dark transparent blue color liquid with aromatic solvent odor

Boiling point or range: N/A

Vapor density (air = 1): N/A

Specific gravity (h₂o = 1): 0.93

Evaporation rate: N/A

Solubility in water: negligible

Odor threshold: N/A

pH: N/A

Melting point/freezing point: N/A

Vapor pressure: N/A

Auto ignition temperature: N/A

Partition coefficient: n-octanol/water: N/A

Decomposition temperature: N/A

10. Stability and Reactivity

Stability: stable

Conditions to avoid (stability): avoid contact with open flames and all sources of ignitions and sparks.

Incompatibility (material to avoid): avoid contact with strong oxidizing agents or materials.

Hazardous decomposition or by-products: co, co₂, nox, amines, and other aliphatic fragments which have not been determined.

Hazardous polymerization: will not occur.

11. Toxicological Information

No data for the product itself.

Component data:

Component CAS# 64742-95-6 Tests on similar materials show a low order of acute oral and dermal toxicity. May cause eye irritation, may cause irritation on skin and mucous membranes.

Component Ethyl Benzene (a minor component of CAS# 64742-96-6): Acute Oral toxicity LD50: ca. 3500 mg/kg (rat); Acute inhalation LC50: 17.2 mg/l 4h (rat); Acute Dermal Toxicity: 17,800 mg/kg (rabbit); Skin Irritation rabbit Draize exposure time 24h – slightly irritating. Eye Irritation rabbit Draize – severely irritating. Sensitization dermal (human patch test) non-sensitizer. Repeated Dose toxicity 28 days inhalation NOAEL: 3.4 mg/l (rabbit).

Mutagenicity Genetic Toxicity in Vitro: Ames: Negative (salmonella typhimurium, metabolic activation with/without). Carcinogenicity: Ethyl benzene was tested by inhalation exposure in mice and rats. In mice, there was an increased incidence of lung adenomas in males and liver adenomas in females. In male rats, there was an increased incidence of renal tubule adenomas and carcinomas. Two Studies of workers potentially exposed to ethyl benzene in a production plant and a styrene polymerization plant, showed no excess cancer incidence and no excess cancer mortality during a 15 year follow-up. Toxicity to Reproduction/Fertility: Inhalation (monkey, male) Reproductive effects have been observed in animal studies, In a generation study, inhalation (rat/female) NOAEL (parental): 100 ppm NOAEL (F2): 100 ppm.

Developmental Toxicity/Teratogenicity rat, female, inhalation, gestation, daily, NOAEL (teratogenicity): 100 ppm (maternal): 100 ppm. Teratogenic effects seen only with maternal toxicity., Fetotoxicity seen only with maternal toxicity. Rabbit, female, inhalation, gestation, daily, NOAEL (teratogenicity) < 1000 mg/m³, NOAEL (maternal) < 1000 mg/m³.

Component Xylene (a minor component of CAS# 64742-95-6): Inhalation LC50 26800ppm, Skin LD50 2000 mg/kg, Ingestion LD50 4.3 g/kg. Exposure may affect skin, eye, liver, kidney, nervous system, respiratory system and lungs. High concentrations may lead to nervous system effects. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Component Cumene(a minor component of CAS# 64742-95-6): IARC has classified Cumene as possibly Carcinogenic to humans (group 2B).

Component CAS# 95-63-6: Oral LD50 (rat) = 5000 mg/kg. Inhalation LC50 (rat) -4h = 18000 mg/m³.

Component Tetrahydroxypropyl Ethylenediamine CAS# 102-60-3: Oral LD50 3280 mg/kg (rat). Skin Irritation – non irritant (rabbit). Eye Irritation – non-irritant (rabbit). Sensitization – Non-sensitizing (guinea pig, maximization test). Genetic Toxicity – The component was not mutagenic in bacteria.

12. Ecological Information

No data for the product itself.

Component data:

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Component CAS# 64742-95-6 Toxic to aquatic organisms.

Component Ethyl Benzene (a minor component of CAS# 64742-95-6): Biodegradation, Aerobic, 50%, Exposure time 28 days. Biochemical Oxygen demand (BOD) 5 days, 2.8% and 35 days, 1780 mg/g. Bioaccumulation: Cyprinus carpio (Carp), 15 BCF. Acute and Prolonged Toxicity to Fish LC50: 12.1 mg/l (fathead minnow, 96 h). Acute Toxicity to Aquatic Invertebrates EC50: 1.8-2.9 mg/l (water flea, 48 h). Toxicity to Aquatic Plants EC50: 4.6 mg/l (green algae, 72 h). Toxicity to microorganisms EC50: 130 mg/l (activated sludge microorganisms, 48 hr).

Component Xylene (a minor component of CAS# 64742-95-6): Acute Toxicity: Fish: Toxic 1 < LCECIC50 < 10 mg/l, Aquatic Invertebrates: Toxic 1 < LC/EC/IC50 < 10 mg/l, Algae: Toxic 1 < LC/EC/IC50 < 10 mg/l. Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air.

Component Cumene (a minor component of CAS# 64742-95-6): LC50 (fish) 1-10 mg/l.

Component CAS# 95-63-6: Toxicity to fish LC50 (fathead minnow) 7.72 mg/l 96 hr. Toxicity to daphnia and other aquatic invertebrates: Immobilization EC50 (water flea) 3.6mg/l 48hr.

Component Tetrahydroxypropyl Ethylenediamine CAS# 102-60-3 : Test Method OECD 301 A (aerobic) activated sludge : DOC Reduction 40-50%, 42 days. Toxicity to microorganisms : OECD Guideline 209 aerobic, activated sludge : 1000 mg/l (30 min), The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

13. Waste Disposal

Waste Disposal Method: Dispose of material as a hazardous waste according to federal, state, and local regulations.

14. Transport Information

DOT: Not Regulated

IMO/IMDG: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS Aromatic Petroleum Distillates), 9, PGIII MARINE POLLUTANT

15. Regulatory Information

No data for the product itself.

Component data:

Component CAS# 64742-95-6 This product is a hazardous chemical . This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372 Component 1,2,4-trimethylbenzene CAS# 95-63-6 at < 42% and xylene CAS# 1330-20-7 at < 3.0%, Cumene CAS# 98-82-8 at < 2%, and Ethylbenzene CAS# 100-41-4 at < 0.40%.. This component contains chemicals on the California Proposition 65 list that may cause cancer or reproductive harm.

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Component is on the TSCA list as well as the AICS, DSL, ECL, EINECS, ENCS, IECSC and PICCS lists

Component Ethyl Benzene (a minor component of CAS# 64742-95-6): US EPA CERCLA Hazardous Substances (40 CFR 302): Ethyl Benzene reportable quantity 1000 lbs. US EPA Emergency Planning and Community Right to Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.5) components, Ethyl Benzene. California Prop 65: This product contains chemicals known to the State of California to be carcinogenic: Ethylbenzene CAS# 100-41-4 @ 0.39% Massachusetts, New York, Pennsylvania Right to Know list includes the following components: Ethylbenzene CAS# 100-41-4. Massachusetts, New York, Pennsylvania Special hazardous Substance includes the following components: Ethylbenzene CAS# 100-41-4

Component Xylene (a minor component of CAS# 64742-95-6): Xylene contains EPCRA section 313 chemicals subject to the reporting requirements of the emergency planning and community right to know act of 1968. Xylene and its components are on the California Proposition 65 list for developmental toxicity, Reproductive toxicity and carcinogen list. Ingredients are on the TSCA list, DSL Canada, AICS, China, EINECS, ENCS, Korea, New Zealand, Philippines inventory lists and on the Massachusetts, New Jersey, Pennsylvania right to know lists

Component Cumene (a minor component of CAS# 64742-95-6): is a SARA 313 chemical. This component is a CERCLA chemical. This component is a California Proposition 65 Chemical which is known to cause cancer or other birth defects or reproductive harm. This component is on the New Jersey right to know list. Components are on the TSCA list and Canada DSL list.

Component CAS# 95-63-6: This component is subject to SARA Title III Section 313 reporting. This component is in the TSCA and Canada DSL Lists. This component is on the Massachusetts, Pennsylvania, New Jersey right to know lists.

Component Tetrahydroxypropyl Ethylenediamine CAS# 102-60-3: Component is on the TSCA and Canada DSL lists. This component may contain chemicals known to the State of California to cause cancer.

16.Disclaimer

DISCLAIMER: The information Contained herein is based on the data available and is believed to be accurate, However, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

N/A = Not Available

See Section 1 for date of preparation

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