CONCRETE FUSION
1320 F AVE NE
CEDAR RAPIDS, IOWA, 52402
USA

PRODUCT: 103159 CONCRETE FUSION PART A

SECTION 01: IDENTIFICATION

Initial supplier identifier.....	CONCRETE FUSION 1320 F AVE NE CEDAR RAPIDS IOWA U.S.A. 52402
Product identifier.....	103159 CONCRETE FUSION PART A
Recommended use and restrictions on use ..	Coatings.
Chemical family.....	Mixture.
NFPA rating.....	Health: 2 Fire: 4 Reactivity: 0.
HMIS.....	H: 2 F: 4 R: 0.
24 hour emergency number:.....	For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC); IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300. ** For medical emergencies contact your local poison control centre **.

SECTION 02: HAZARD IDENTIFICATION

Signal Word.....	DANGER.
Hazard Classification.....	Flammable Liquid 2. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). (respiratory system). Germ Cell Mutagenicity 2. Carcinogenicity — Category 2. Reproductive Toxicity — Category 1. Specific Target Organ Toxicity — Repeated Exposure — Category 2.
Hazard Description.....	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H351 This product contains ingredients that are suspected of causing cancer. H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.
Prevention.....	P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion proof equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe mist, vapours, or spray. P264 Wash 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. P280 Wear protective gloves and eye protection.
Response	P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower . P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor 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 until medical help arrives. P337 + P313 - If eye irritation persists get medical attention. P302 + P352 - If on skin: wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash before reuse. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P308 + P313 If exposed or concerned, get medical advice/attention.
Storage.....	P233 Keep container tightly closed. P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up.
Disposal.....	P501 Dispose all unused, waste or empty containers in accordance with local regulations.
Note	This product mixture has been classified based on its ingredients.

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SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Butyl Acetate	123-86-4	10-30
Acetone	67-64-1	10-30
Xylene	1330-20-7	10-30
Ethylbenzene	100-41-4	1-7
Methyl N-Amyl Ketone	110-43-0	1-5
Methyl Ethyl Ketone	78-93-3	1-5
4-Chlorobenzotrifluoride	98-56-6	1-5
Bis (1,2,2,6,6- Pentamethyl-4- Piperidyl) Sebacate	41556-26-7	0.1-1
Dibutyltin Bis (Acetylacetonate)	22673-19-4	0.1-1
<<The actual concentration(s) withheld as a trade secret>>	.	

SECTION 04: FIRST-AID MEASURES

Eye contact..... In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact..... Remove all contaminated clothing and immediately wash the exposed areas with copious amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas. Wash clothing before reuse. If irritation persists, seek medical attention.

Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.

Ingestion..... If ingestion is suspected, contact physician or poison control center immediately. Do not induce vomiting. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, ... Harmful if swallowed, in contact with skin or if inhaled. Vapors have a narcotic effect and whether acute or delayed may cause headache, fatigue, dizziness and nausea. Causes skin and eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Can cause skin sensitization. This product contains ingredients that are suspected of damaging fertility or the unborn child. This product contains ingredients that may cause cancer. May cause genetic defects. Causes damage to organs through prolonged or repeated exposure.

Additional information..... Treat victims symptomatically. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing ..... "Alcohol" foam, CO2, dry chemical. Water spray. Do not use water in a jet. media

Specific hazards arising from the ..... Extremely flammable. The vapour is heavier than air, spreads along the ground and distant hazardous product, such as the nature of ignition is possible. . Oxides of carbon (CO, CO2). Hydrogen chloride. hydrogen flouride. any hazardous combustion products Peroxides. Hydrocarbon fumes and smoke.

Special protective equipment and ..... Firefighter should be equipped with self-contained breathing apparatus and full protective precautions for fire-fighters clothing to protect against potentially toxic and irritating fumes. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. Solvent vapours may be heavier than air and may build up and travel along the ground to an ignition source, which may result in a flash back to the source of the vapours. Keep run-off water from entering sewers and other waterways. Dike for water control.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Leak/spill..... Ventilate. Eliminate all sources of ignition. Evacuate all non-essential personnel. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Avoid all personal contact. Absorb with earth, sand, or another dry inert material. Scrape or shovel into containers. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, provincial, state, and federal regulations.

Methods and materials for containment . Dike area to contain the spill, prevent runoff from going into drains, absorb residual and cleaning up material with an inert absorbent, shovel or pump to a properly labelled container and dispose of as a hazardous waste.

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SECTION 07: HANDLING AND STORAGE

Precautions for safe handling..... Keep away from heat, sparks, and open flame. Electrostatic charges may be generated during pumping. Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. Do NOT use compressed air for handling. Avoid all skin contact. Handle with care. Avoid breathing vapours or mist. Ventilate adequately, otherwise wear an appropriate breathing apparatus. Employees should wash hands and face before eating or drinking.

Conditions for safe storage, including any incompatibilities: Keep away from heat, sparks, and open flames. Keep container closed when not in use. Store away from incompatible materials. Keep away from acids and alkalis. Store away from strong oxidizers.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL PEL	OSHA PEL STEL	NIOSH REL
Butyl Acetate	150 ppm	200 ppm	150 ppm	200 ppm vacated	150 ppm - STEL 200 ppm
Acetone	250 ppm TLV	500 ppm	1,000 ppm	Not established	250 ppm
Xylene	50 ppm	150 ppm	100 ppm TWA	Not established	Not established
Ethylbenzene	100 ppm	125 ppm	100 ppm	Not established	100 ppm / STEL 125 ppm
Methyl N-Amyl Ketone	50 ppm	Not established	100 ppm	465 mg/m3 TWA	Not established
Methyl Ethyl Ketone	200 ppm	300 ppm	200 ppm	Not established	200 ppm TWA
4-Chlorobenzotrifluoride	Not established	Not established	Not established	Not established	Not established
Bis (1,2,2,6,6-Pentamethyl-4- Piperidyl) Sebacate	Not established	Not established	Not established	Not established	Not established
Dibutyltin Bis (Acetylacetonate)	Not established	Not established	Not established	Not established	Not established

Appropriate engineering controls..... Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation. Explosion-proof exhaust ventilation.

Personal Protective Equipment

Eye/type..... Chemical safety goggles and full faceshield if a splash hazard exists.

Gloves/ type..... Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed.

Clothing/type..... Wear adequate protective clothes.

Footwear/type..... Safety boots per local regulations.

Respiratory/type..... Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.

Other/type..... Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Liquid.
Colour..... Clear.
Odour..... Solvent odour. Fruity characteristic.
Odour threshold (ppm)..... Not available.
pH..... No data.
Melting / Freezing point (deg C)..... < 0 °C.
Initial boiling point / boiling range (deg C). >55 C.
Flash point (deg C), method..... -19 C. (estimate; lowest flash point ingredient).
Evaporation rate..... 11.6. (for Acetone).
Flammability (solids and gases)..... Not applicable.
Upper flammable limit (% vol)..... 12.6.
Lower flammable limit (% vol)..... 0.9.
Vapour pressure (mm Hg)..... No data.
Vapour density (air=1)..... >1.
Relative Density (Specific Gravity)..... 0.934.
Pounds / USG..... 7.8. lbs/USG.
Solubility..... No data.
Partition coefficient — n-octanol/water..... Not available.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Auto ignition temperature (deg C).....	> 200°C.
Decomposition temperature.....	Not available.
Viscosity.....	No data.
% Volatile by volume.....	73.29.
VOC.....	3.69 lbs/USG.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Product is stable; hazardous polymerization will not occur.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	Hazardous polymerization will not occur.
Conditions to avoid, including static ..... discharge, shock or vibration	Electrostatic discharge can cause a fire and explosion of a mixture of air and acetone vapor when the concentration in air is within explosive limits. Direct sunlight.
Incompatible materails.....	Strong oxidizing agents, acids, bases. Reducing agents. Halogenated compounds. Amines. Ammonia. Aldehydes. hydrogen peroxide.
Hazardous decomposition products.....	Oxides of carbon (CO,CO2). Smoke. Hydrogen chloride. Hydrogen fluoride. Peroxides.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Butyl Acetate	390 ppm (4 hr)	10768 mg/kg oral rat 17600 mg/kg dermal rabbit
Acetone	50,100 mg/m3 8 hours rat inhalation	5,800 mg/kg rat oral
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral
Ethylbenzene	No data	3,500 mg/kg rat oral 17,800 mg/kg rabbit dermal
Methyl N-Amyl Ketone	Not Available	1,670 mg/kg rat oral 12,600 mg/kg rabbit dermal
Methyl Ethyl Ketone	>5,000 ppm (6 hours, rat) 11000 ppm (45 minutes, mouse)	3,400 mg/kg (rat, oral) >8000 mg/kg (rabbit, dermal) 670 mg/kg (mouse, oral)
4-Chlorobenzotrifluoride	4479 ppm	>6,800 mg/kg rat oral; >2,700 mg/kg rabbit dermal
Bis (1,2,2,6,6- Pentamethyl-4- Piperidyl) Sebacate	Not Available	2369-3920 mg/kg oral rat >2000 mg/kg dermal rabbit
Dibutyltin Bis (Acetylacetonate)	Not Available	1864 mg/kg (oral, rat)

Route of exposure.....	Eye contact. Skin contact. Inhalation.
Effects of acute exposure.....	Can cause moderate skin or eye irritation. May cause sensitization by skin contact. Inhalation of vapours or mist may cause drowsiness or dizziness. Causes respiratory tract irritation.
Effects of chronic exposure.....	May aggravate pre-existing skin and eye disorders. Prolonged or repeated exposure may result in an allergic respiratory reaction in sensitive individuals. Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal .
Sensitizing capability of material.....	This product may cause skin sensitization.
Carcinogenicity of material.....	Xylene has been listed by IARC as a Group 3; not classifiable as to its carcinogenicity to humans. Ethylbenzene is classified as an A3 known animal carcinogen.
Reproductive effects.....	Contains Dibutyltin Dilaurate. Similar materials have show to interfere with fertility. High level exposure to Xylene in some animal studies have been reported to cause health effects on the developing embryo/fetus. The relevance of this to humans is not known. In one study, Methyl Ethyl Ketone has been found to cause embryol toxicity in large concentrations.
Mutagenicity.....	Contains Dibutyltin Dilaurate. In vitro studies for similar materials have show positive and negative results.
Specific Target Organ Toxicity	May cause drowsiness or dizziness. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure .

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SECTION 12: ECOLOGICAL INFORMATION

Environmental.....	Do not allow to enter waters, waste water or soil.
Other adverse effects.....	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal . and methods of disposal, including any contaminated packaging	Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations. Empty containers must be handled with care due to product residue.

SECTION 14: TRANSPORT INFORMATION

TDG Classification.....	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - This product meets the Limited Quantity exemption when packaged in containers less than 5 liters.
DOT Classification (Road).....	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - Ltd Qty (1 litre). Refer to 49CRF 172.101 for additional non-bulk packaging requirements.
IATA Classification (Air).....	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group II - EmS: F-E S-E. Limited Quantity. Check IMDG regulations for limited quantity exemptions.
Marine Pollutant.....	Potential marine pollutant.
Proof of Classification.....	In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July 2, 2014) - we certify that classification of this product is correct. .

SECTION 15: REGULATORY INFORMATION

CEPA status.....	On Domestic Substances List (DSL).
TSCA inventory status.....	All components are either listed or exempt from the TSCA. .
OSHA.....	This product is considered hazardous under the OSHA Hazard Communication Standard.
SARA Title III	
Section 302 - extremely hazardous ..... substances	None.
Section 311/312 - hazard categories.....	Immediate health, delayed health, fire hazard.
Section 313.....	Ethylbenzene. Xylene.
EPA hazardous air pollutants (HAPS) 40CFR63	Ethylbenzene. Toluene. Xylene.
California Proposition 65.....	*** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause birth defects or other reproductive harm. (Toluene). *** ! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer . (Ethyl benzene). For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by:	REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.
Telephone number:.....	(800) 387-7981.
Disclaimer:.....	DISCLAIMER: All information appearing herein is based upon data obtained from experience and recognized technical sources. To the best of our knowledge, it is believed to be correct as of the date of issue but we make no representations as to its accuracy or sufficiency and do not suggest or guarantee that any hazards listed herein are the only ones which exist. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. The information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.
Date of the latest revision of the safety data sheet ..	2019-02-27