



ALL PURPOSE SEALER
1320 F AVE NE
CEDAR RAPIDS, IOWA, 52402
USA

PRODUCT: CA31 ALL PURPOSE CONCRETE SEALER - PARTS A & B (KIT)

SECTION 01: IDENTIFICATION

Product identifier..... CA31 ALL PURPOSE CONCRETE SEALER - PART A
 Other means of identification
 Chemical family..... Mixture.
 Recommended use and restrictions on .. Coatings.
 use
 Initial supplier identifier..... ALL PURPOSE SEALER
 1320 F AVE NE
 CEDAR RAPIDS
 IOWA
 U.S.A.
 52402
 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 **.
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 NFPA rating..... Health: 2 Fire: 4 Reactivity: 0.
 HMIS..... H: 2 F: 4 R: 0.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.
 Hazard Classification..... Flammable Liquid 2. Aspiration Toxicity 1. Skin Irritation — Category 2. Eye Irritation — Category 2A. Specific Target Organ Toxicity — Single Exposure — Category 3. (narcotic effects). Carcinogenicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 2. (ear).
 Hazard Description..... H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H351 This product contains ingredients that are suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. (Ear).
 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 the mist, vapours, or spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well ventilated area. 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. P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. P308 + P313 If exposed or concerned, get medical advice/attention. 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. P332 + P313 - If skin irritation occurs get medical attention or advice. P362 + P364 - Take off contaminated clothing and wash before reuse. P314 - Get medical advice/attention if you feel unwell. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell.
 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.

PRODUCT: CA31 ALL PURPOSE CONCRETE SEALER - PART A**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
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Xylene	1330-20-7	30-60
n-Butyl Acetate	123-86-4	10-30
Ethylbenzene	100-41-4	1-5

<<The actual concentration(s) withheld as a trade secret>>

* Xylene is known to contain Ethylbenzene (CAS #100-41-4)

SECTION 04: FIRST-AID MEASURES

Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion.....	ASPIRATION HAZARD IF SWALLOWED. The main hazard from ingestion is aspiration of the liquid into the lungs. 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.
Skin contact.....	Immediately remove all contaminated clothing, flush skin with water for at least 15 minutes. Wash clothing before reuse. If irritation persists, seek medical attention.
Eye contact.....	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Consult a physician if irritations continues. Check for and remove any contact lenses, if safe and easy to do so.
Most important symptoms and effects, whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. Causes skin irritation. May cause drying or flaking of skin. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. This product contains ingredients that may cause cancer. Causes damage to organs through prolonged or repeated exposure.
Additional information.....	The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. 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 media	"Alcohol" foam, CO ₂ , dry chemical. Water fog. The water spray reduces the intensity of the flames. However, water jets can promote the spread of fire.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Flammable liquid. Take precautionary measures against electrostatic loading. This material may produce a floating fire hazard. Thermal decomposition products are toxic. May include: Oxides of carbon (CO, CO ₂). Hydrocarbon fumes and smoke.
Special protective equipment and precautions for fire-fighters	Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. 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. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	No action shall be taken involving any personal risk or without suitable training. Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways. Take precautions against static discharge. Equipment should be grounded. Use non-sparking tools and equipment to pick up the spilled material.
Methods and materials for containment and cleaning up	
Leak/spill.....	Ventilate. Eliminate all sources of ignition. Evacuate all non-essential personnel. Avoid all personal contact. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Absorb with an inert dry material and place in an appropriate waste container. 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.

PRODUCT: CA31 ALL PURPOSE CONCRETE SEALER - PART A**SECTION 07: HANDLING AND STORAGE**

Precautions for safe handling..... Keep away from heat, sparks, and open flame. Prevent accumulation of electrostatic charges. Ground handling equipment. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Handle and open container with care. 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 oxidizing and reducing materials. Store away from sunlight.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Xylene	50 ppm CA ON: 100ppm (TWA); 150ppm (STEL)	150 ppm	100 ppm TWA	Not established		Not established
n-Butyl Acetate	50 ppm CA ON: 50ppm (TWA), 150ppm (STEL)	150 ppm	150 ppm	200 ppm		150 ppm / STEL 200 ppm
Ethylbenzene	100 ppm CA ON: 20ppm (TWA)	125 ppm	100 ppm	Not established		100 ppm / STEL 125 ppm
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.....	Liquid chemical goggles. 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. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Contact glove supplier for recommendations.					
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.					
Clothing/type.....	Wear adequate protective clothes.					
Footwear/type.....	Safety boots per local regulations.					
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. Sweet odour.

Odour threshold (ppm)..... Not available.

pH..... Not available.

Melting / Freezing point (deg C)..... < 0 °C. (estimate).

Initial boiling point / boiling range (deg C). >100°C.

Flash point (deg C), method..... 22°C / 72°F. (estimate; lowest flash point ingredient).

Evaporation rate..... Not available.

Flammability (solids and gases)..... Not applicable. Flammable liquid.

Upper flammable limit (% vol)..... 7.5.

Lower flammable limit (% vol)..... 1.0.

Vapour pressure (mm Hg)..... Not available.

Vapour density (air=1)..... >1.

Relative Density (Specific Gravity)..... 0.958.

Pounds / USG..... 7.99.

Solubility..... Negligible.

Partition coefficient — n-octanol/water..... Not available.

Auto ignition temperature (deg C)..... > 200°C.

Decomposition temperature..... Not available.

Viscosity..... Not available.

VOC (less exempt volatiles)..... 5.19 lbs/USG; 622 g/L.

PRODUCT: CA31 ALL PURPOSE CONCRETE SEALER - PART A**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	Keep away from heat. Electrostatic charge.
Incompatible materials.....	Strong acids. Strong bases. Strong oxidizers. Reducing agents.
Hazardous decomposition products.....	No hazardous decomposition products when stored and handled correctly. Hazardous decomposition products depend on temperature, air supply, and the presence of other materials. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Xylene	6350 ppm 4 hours rat	>3523 mg/kg rat oral
n-Butyl Acetate	>33 mg/L vapour, 5.2 mg/L (rat) dust/mist	10760 mg/kg (rat, oral) 14112 mg/kg (rabbit, dermal)
Ethylbenzene	No data	3,500 mg/kg rat oral 17,800 mg/kg rabbit dermal
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Symptoms related to the physical, chemical and toxicological characteristics		
Effects of acute exposure.....	Aspiration of liquid into lungs can cause chemical pneumonitis. Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary corneal damage. Causes skin irritation. Harmful if inhaled. Inhalation of vapours or mist may cause drowsiness or dizziness.	
Effects of chronic exposure.....	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. Prolonged or repeated skin contact may cause drying or cracking of skin.	
Carcinogenicity of material.....	Ethylbenzene is classified as an A3 known animal carcinogen. Xylene has been listed by IARC as a Group 3; not classifiable as to its carcinogenicity to humans.	
Reproductive effects.....	In one study, Methyl Ethyl Ketone has been found to cause embryol toxicity in large concentrations. 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.	
Sensitizing capability of material.....	Ethylbenzene is a possible skin sensitizer.	
Specific Target Organ Toxicity	May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure .	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	Product data not available.
Persistence and degradability.....	Product data not available.
Bioaccumulative potential.....	Product data not available.
Mobility in soil.....	Product data not available.
Other adverse effects.....	Do not allow to enter waters, waste water or soil.

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.
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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 49CFR 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.....	No.
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. .

PRODUCT: CA31 ALL PURPOSE CONCRETE SEALER - PART A

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 None.
 substances
 Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.
 Section 313..... Ethylbenzene. Xylene.
 EPA hazardous air pollutants (HAPS) Ethylbenzene. Xylene.
 40CFR63
 California Proposition 65..... *** ! 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 .. 2022-03-13
 data sheet



ALL PURPOSE SEALER
1320 F AVE NE
CEDAR RAPIDS, IOWA, 52402
USA

PRODUCT: SA28 ALL PURPOSE CONCRETE SEALER - PART B

SECTION 01: IDENTIFICATION

Product identifier..... SA28 ALL PURPOSE CONCRETE SEALER - PART B
 Other means of identification
 Chemical family..... Mixture.
 Recommended use and restrictions on .. Coatings. Activator.
 use
 Initial supplier identifier..... ALL PURPOSE SEALER
 1320 F AVE NE
 CEDAR RAPIDS
 IOWA
 U.S.A.
 52402
 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 **.
 -
 NFPA rating..... Health: 2 Fire: 3 Reactivity: 1.
 HMIS..... H: 2 F: 3 R: 1.

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.
 Hazard Classification..... Flammable Liquid 3. Aspiration Toxicity 1. 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. (respiratory system). Carcinogenicity — Category 2.
 Hazard Description..... H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. 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. H351 This product contains ingredients that are suspected of causing cancer.
 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. P261 Avoid breathing mists, vapours and sprays. 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 . 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. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P362 + P364 - Take off contaminated clothing and wash before reuse. P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P308 + P313 If exposed or concerned, get medical advice/attention. P321 - For specific treatment see section 4 on this SDS.
 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.

PRODUCT: SA28 ALL PURPOSE CONCRETE SEALER - PART B**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
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Hexane, 1,6-diisocyanato-, homopolymer	28182-81-2	30-60
Xylene	1330-20-7	30-60
Ethylbenzene	100-41-4	1-5

<<The actual concentration(s) withheld as a trade secret>>

* Xylene is known to contain Ethylbenzene (CAS #100-41-4)

SECTION 04: FIRST-AID MEASURES

Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention. Extreme asthmatic reactions that may occur in sensitized persons.
Ingestion.....	ASPIRATION HAZARD IF SWALLOWED. 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.
Skin contact.....	Immediately remove all contaminated clothing, flush skin with water for at least 15 minutes. Wash clothing before reuse. If irritation persists, seek medical attention. If readily available, apply a polyglycol-based cleanser or corn oil.
Eye contact.....	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Consult a physician if irritations continues. Check for and remove any contact lenses, if safe and easy to do so.
Most important symptoms and effects, whether acute or delayed	Harmful if swallowed, in contact with skin or if inhaled. The main hazard from ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. Isocyanate vapors or mist at concentrations above the exposure limits or guidelines can irritate the mucous membranes in the respiratory tract. Symptoms may include runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function. May cause drying or flaking of skin. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause respiratory irritation. Delayed: Symptoms affecting the respiratory tract can also occur several hours after overexposure.
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. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media	"Alcohol" foam, CO ₂ , dry chemical. Water fog. The water spray reduces the intensity of the flames. However, water jets can promote the spread of fire.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Flammable liquid. Take precautionary measures against electrostatic loading. This material may produce a floating fire hazard. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Thermal decomposition products are toxic. May include: Oxides of carbon (CO, CO ₂). Isocyanates. Isocyanic acid. Hydrogen cyanide. Nitrogen oxides. Hydrocarbon fumes and smoke.
Special protective equipment and precautions for fire-fighters	Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. 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. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	No action shall be taken involving any personal risk or without suitable training. Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways. Take precautions against static discharge. Equipment should be grounded. Use non-sparking tools and equipment to pick up the spilled material.
Methods and materials for containment and cleaning up	
Leak/spill.....	Ventilate. Eliminate all sources of ignition. Evacuate all non-essential personnel. Avoid all personal contact. Contain the spill. Prevent runoff into drains, sewers, and other

PRODUCT: SA28 ALL PURPOSE CONCRETE SEALER - PART B**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Leak/spill..... waterways. Absorb with an inert dry material and place in an appropriate waste container. Do not fill the container more than 2/3 full to allow for expansion, and do not tighten the lid on the container. Allow to stand uncovered for 72 hours to let carbon dioxide escape. Decontaminate the spill surface area using a neutralization solution. 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.

Clean up..... Products or product mixtures that have been shown to be effective neutralization solutions for decontaminating surfaces, tools, or equipment that have been in contact with an isocyanate include, but are not limited to: Colorimetric Laboratories, Inc. (CLI): 1-847-803-3737: Isocyanate Decontamination Solution. Spartan Chemical Company: 1-800-537-8990: Spartan® ShineLine Emulsifier Plus (stripping solution). Spartan® SC-200 Heavy Duty Cleaner. ZEP Commercial Heavy Duty Floor Stripper.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling..... Handle and open container with care. Keep away from heat, sparks, and open flame. Prevent accumulation of electrostatic charges. Ground handling equipment. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Employees should wash hands and face before eating or drinking. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed vapour or spray mist.

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 oxidizing and reducing materials. Store away from sunlight. Avoid: Water, Amines, Strong bases, Alcohols, Copper alloys.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Hexane, 1,6-diisocyanato-, homopolymer	Not Established	Not Established	Not Established	Not Established	Not Established	Not Established
	Supplier OEL: 0.5mg/m3 (TWA)					
Xylene	50 ppm	150 ppm	100 ppm TWA	Not established	Not established	Not established
	CA ON: 100ppm (TWA); 150ppm (STEL)					
Ethylbenzene	100 ppm	125 ppm	100 ppm	Not established	100 ppm / STEL 125 ppm	
	CA ON: 20ppm (TWA)					
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.....	Liquid chemical goggles. 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. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Contact glove supplier for recommendations.					
Respiratory/type.....	Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits. Diisocyanates have poor warning properties. An air-purifying respirator with an organic vapour cartridge and an N95 filter can be used safely and effectively to reduce exposure, provided that appropriate cartridge change schedules are developed to ensure that cartridges are changed before breakthrough occurs. The employer is required to select the appropriate respirator for each situation and must consider the potential exposure to chemicals in addition to diisocyanates. Whenever concentrations of isocyanates exceed the exposure limit or are not known, respiratory protection must be worn.					
Clothing/type.....	Wear adequate protective clothes.					
Footwear/type.....	Safety boots per local regulations.					
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.					

PRODUCT: SA28 ALL PURPOSE CONCRETE SEALER - PART B**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Medical surveillance..... Medical supervision of all employees who handle or come in contact with isocyanates is recommended. These should include preemployment and periodic medical examinations with pulmonary function test (FEC, FVC as a minimum). Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurring skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Liquid.
 Colour..... Clear to pale yellow.
 Odour..... Sweet odour. Characteristic odour.
 Odour threshold (ppm)..... Not available.
 pH..... Not available.
 Melting / Freezing point (deg C)..... < 0 °C. (estimate).
 Initial boiling point / boiling range (deg C)..... >100°C.
 Flash point (deg C), method..... 24°C (75°F). (estimate; lowest flash point ingredient).
 Evaporation rate..... Not available.
 Flammability (solids and gases)..... Not applicable. Flammable liquid.
 Upper flammable limit (% vol)..... 7.0.
 Lower flammable limit (% vol)..... 1.0.
 Vapour pressure (mm Hg)..... Not available.
 Vapour density (air=1)..... >1.
 Relative Density (Specific Gravity)..... 0.990.
 Pounds / USG..... 8.27.
 Solubility..... Negligible.
 Partition coefficient — n-octanol/water..... Not available.
 Auto ignition temperature (deg C)..... > 400°C.
 Decomposition temperature..... Not available.
 Viscosity..... Not available.
 VOC (less exempt volatiles)..... 4.13 lbs/USG; 495 g/L.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Contact with moisture, other materials that react with isocyanates, or temperatures above 177 C, may cause polymerization.
 Chemical stability..... Stable at normal temperatures and pressures.
 Possibility of hazardous reactions..... Contact with moisture, other materials that react with isocyanates, or temperatures above 177C, may cause polymerization.
 Conditions to avoid, including static Keep away from heat. Electrostatic charge. Water.
 discharge, shock or vibration
 Incompatible materials..... Strong acids. Reducing agents. Water, Amines, Strong bases, Alcohols, Copper alloys.
 Hazardous decomposition products..... No hazardous decomposition products when stored and handled correctly. Hazardous decomposition products depend on temperature, air supply, and the presence of other materials. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Hexane, 1,6-diisocyanato-, homopolymer	4.63 mg/L rat 4 hours	>5,000 mg/kg oral rat >5,000 mg/kg dermal rabbit
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
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Symptoms related to the physical, chemical and toxicological characteristics		
Effects of acute exposure.....	Isocyanate vapour/mists at concentrations above the exposure limits can irritate (burning sensation) the mucous membranes in the respiratory tract. This can cause a runny nose, sore throat, coughing, chest discomfort, difficult breathing and reduced pulmonary functioning. Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary corneal damage. Contact with skin can cause severe irritation. Harmful if inhaled. Inhalation of vapours causes irritation to the nose, throat and respiratory tract. Inhalation of vapours or mist may cause drowsiness or dizziness.	

PRODUCT: SA28 ALL PURPOSE CONCRETE SEALER - PART B**SECTION 11: TOXICOLOGICAL INFORMATION**

Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests have indicated that respiratory sensitization can result from skin contact with diisocyanates. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal. Prolonged or repeated skin contact may cause drying or cracking of skin.
Carcinogenicity of material.....	Ethylbenzene is classified as an A3 known animal carcinogen.
Reproductive effects.....	No data on reproductive effects were found in the literature sources consulted.
Sensitizing capability of material.....	Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests have indicated that respiratory sensitization can result from skin contact with diisocyanates.
Specific Target Organ Toxicity	May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure .

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	Product data not available.
Persistence and degradability.....	Product data not available.
Bioaccumulative potential.....	Product data not available.
Mobility in soil.....	Product data not available.
Other adverse effects.....	Do not allow to enter waters, waste water or soil.

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.
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SECTION 14: TRANSPORT INFORMATION

TDG Classification.....	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group III - 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 III - This product meets the limited quantity exemption when packaged in containers less than 5 liters .
IATA Classification (Air).....	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group III. Limited Quantity. Do not ship by air without checking appropriate IATA regulations.
IMDG Classification (Marine).....	UN1263 - PAINT RELATED MATERIAL - Class 3 - Packing Group III - EmS: F-E S-E . Limited Quantity. Check IMDG regulations for limited quantity exemptions.
Marine Pollutant.....	No.
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.....	None above De minimus % limit.
EPA hazardous air pollutants (HAPS)	Hexamethylene diisocyanate.
40CFR63	
California Proposition 65.....	*** ! 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.

PRODUCT: SA28 ALL PURPOSE CONCRETE SEALER - PART B

SECTION 16: OTHER INFORMATION

Date of the latest revision of the safety .. 2022-03-13
data sheet