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# Safety Data Sheet

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## Batch Mix, Part B

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### Section 1 – Identification

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SplatSeal Ltd  
1800 Commerce Street, Ste A  
Boulder, CO 80301

Emergency Telephone: (800) 424-9300 Chemtrec  
THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS

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### Section 2 – Hazards Identification

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#### GHS Classification

Eye irritation: Category 2B

#### GHS Label Elements

Hazard pictograms:



Signal word: Warning

**Hazard Statements:** Contains combustible liquid and vapor. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage.

#### Precautionary statements

#### Prevention:

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Wash skin thoroughly after handling.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

IF exposed or concerned: Get medical advice/ attention.

Wash contaminated clothing before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

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### Section 3 – Composition and Information on Ingredients

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Weight Percent	Components	CAS-No.	Classification
<5%	3-Ethyl-2-methyl-2-(3-methylbutyl)1,3-oxazoldine	143860-04-2	Combustible Liquid Category 4. Skin corrosion Category 1A. Serious eye damage Category 1. Reproductive toxicity Category 1B
70-80%	Castor oil	8001-79-4	Eye Irritation Category 2B
5-15%	Benzene,1-Chloro-4 (Trifluoromethyl)	98-56-6	Combustible Liquid Category 4.
1-10%	Propoxylated amine	102-60-3	Eye irritation Category 2B.

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

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### Section 4 – First Aid Measures

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#### Description of first aid measures

**General advice:** Remove contaminated clothing.

**If inhaled:** Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

**In case of skin contact:** Wash affected areas thoroughly with soap and water. Immediate medical attention required.

**In case of eye contact:** In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

**If swallowed:** Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

#### Most important symptoms and effects, both acute and delayed

#### Indication of any immediate medical attention and special treatment needed

**Note to physician:**

**Treatment:** Treat according to symptoms (decontamination, vital functions), no known specific antidote. Pulmonary edema prophylaxis. Medical monitoring for at least 24 hours.

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**Section 5 – Fire Fighting Measures**

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**Extinguishing media:** Suitable extinguishing media: water spray, dry powder, alcohol-resistant foam, carbon dioxide

**Special hazards arising from the substance or mixture:** Hazards during fire-fighting: toxic gases/vapors  
Depolymerization and liberation of the mentioned substances/groups of substances.

**Advice for fire-fighters Protective equipment for fire-fighting:** Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:** If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

**Impact Sensitivity:** Remarks: Based on the chemical structure there is no shock-sensitivity.

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**Section 6 – Accidental Release Measures**

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**Personal precautions, protective equipment and emergency procedures:**

General Measures: Caution: this product can cause the floor to be very slippery. Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

**Environmental precautions**

Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

Spills should be contained, solidified, and placed in suitable containers for disposal.

**Spill and Leak Procedures**

Implement site emergency response plan. Evacuate non-emergency personnel. The magnitude of the evacuation depends upon the quantity released, site conditions, and the ambient temperature. Isolate the area and prevent access of unauthorized personnel. Notify management. Call CHEMTREC at 1-800-424-9300 for assistance and advice.

Wear necessary personal protective equipment (PPE) as specified in the SDS or the site emergency response plan. Ventilate and remove ignition sources. Control the source of the leak. Contain the released material by damming, diking, retaining, or diverting into an appropriate containment area. Absorb or pump off as much of the spilled material as possible. When using absorbent, completely cover the spill area with suitable absorbent material (e.g., vermiculite, kitty litter, Oil-Dri®, etc...). Allow for the absorbent material to absorb the spilled liquid. Shovel the absorbent material into an approved metal container (i.e., 55-gallon salvage drum). Do not fill the container more than 2/3 full to allow for expansion, and do not tighten the lid on the container. Repeat application of absorbent material until all liquid has been removed from the surface.

## Section 7 – Storage and Handling

### Technical measures:

Ensure that eyewash stations and safety showers are close to the workstation location.

### Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing and protective equipment before entering eating areas. Hands and/or face should be washed before breaks and at the end of the shift. When using do not eat, drink or smoke. Keep away from sources of ignition - No smoking. Keep container tightly sealed.

### Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### Conditions for safe storage, including any incompatibilities

Segregate from acids and acid forming substances.

### Further information on storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

## Section 8 – Exposure Controls/Personal Protection

Components	CAS-No.	Value Type (Form of exposure)	Control parameters / Permissible concentration	Basis
Benzene,1-Chloro-4 (Trifluoromethyl)	98-56-6	CEL	25 ppm – 8-hour TWA	--

**No occupational exposure limits known for other components.**

**Advice on system design:** Provide local exhaust ventilation to control vapors/mists.

### Personal protective equipment

**Respiratory protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hand protection Remarks:** The suitability for a specific workplace should be discussed with the producers of the protective gloves. Protective gloves should be worn when handling freshly made polyurethane products to avoid contact with trace residual materials which may be hazardous in contact with skin. Use chemical resistant gloves classified under Standard EN374: protective gloves against chemicals and microorganisms. Examples of glove materials that might provide suitable protection include: Butyl rubber, Chlorinated polyethylene, Polyethylene, Ethyl vinyl alcohol copolymers laminated (“EVAL”), Polychloroprene (Neoprene\*), Nitrile/butadiene rubber (“nitrile” or “NBR”), Polyvinyl chloride (“PVC” or “vinyl”), Fluoroelastomer (Viton\*).

When prolonged or frequently repeated contact may occur, a glove with protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN374) is recommended.

When only brief contact is expected, a glove with protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN374) is recommended. Contaminated gloves should be decontaminated and disposed of.

Notice: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: other chemicals that may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as instructions/specifications provided by the glove supplier.

**Eye protection:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Chemical splash goggles.

Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.

Ensure that eyewash stations and safety showers are close to the workstation location.

**Skin and body protection:** Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Recommended:

Overall (preferably heavy cotton) or Tyvek-Pro Tech 'C', Tyvek Pro 'F' disposable coverall.

**Protective measures:**

Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Ensure that eye flushing systems and safety showers are located close to the working place.

**Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice.

Wash face, hands and any exposed skin thoroughly after handling.

Remove contaminated clothing and protective equipment before entering eating areas.

When using do not eat, drink or smoke.

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

Wash hands before breaks and immediately after handling the product.

Wash hands before breaks and at the end of workday.

## Section 9 – Physical Properties

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<b>State of Matter:</b>	liquid
<b>Appearance:</b>	liquid
<b>Color:</b>	pale yellow
<b>Odor:</b>	characteristic
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	No Data Available
<b>Boiling Point:</b>	No Data Available
<b>Flash Point:</b>	49 °C (120 °F)
<b>Evaporation Rate:</b>	No Data Available
<b>Lower explosion limit:</b>	No Data Available
<b>Upper explosion limit:</b>	No Data Available
<b>Vapor Pressure:</b>	No Data Available
<b>Vapor Density:</b>	No Data Available
<b>Density:</b>	No Data Available
<b>Relative Vapor Density:</b>	No Data Available
<b>Specific Gravity:</b>	1.00
<b>Solubility in Water:</b>	partially soluble
<b>Partition Coefficient: n-octanol/water:</b>	No Data Available
<b>Auto-ignition Temperature:</b>	No Data Available
<b>Decomposition Temperature:</b>	Not established
<b>Dynamic Viscosity:</b>	No data available
<b>Kinematic Viscosity:</b>	No Data Available
<b>Bulk Density:</b>	1,002 kg/m <sup>3</sup>
<b>Self-Ignition:</b>	Not applicable
<b>Self-ignition temperature:</b>	Based on its structural properties the product is not classified as self-igniting.
<b>Thermal decomposition:</b>	No data available
<b>Viscosity, dynamic:</b>	No data available
<b>Viscosity, kinematic:</b>	No data available
<b>Particle size:</b>	The substance / product is marketed or used in a non-solid or granular form.
<b>Miscibility with water:</b>	partly miscible
<b>Molar mass:</b>	No data available
<b>Evaporation rate:</b>	Value can be approximated from Henry's Law Constant or vapor pressure.
<b>Other Information:</b>	If necessary, information on other physical and chemical parameters is indicated in this section.

## Section 10 – Stability and Reactivity

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### Reactivity

**Corrosion to metals:** Corrosive effects to metal are not anticipated.

**Oxidizing properties:** Based on its structural properties the product is not classified as oxidizing.

**Formation of flammable gases:** Remarks: Forms no flammable gases in the presence of water.

## Chemical stability

**Possibility of hazardous reactions:** Evolution of heat under influence of acids.

## Conditions to avoid

**Incompatible materials:** Avoid contact with acids, isocyanates, oxidizing agents and moisture

**Hazardous decomposition products:** carbon dioxide, carbon monoxide, nitrogen oxides

**Thermal decomposition:** 290 °C (DSC (DIN 51007)). Thermal decomposition above the indicated temperature is possible. self-accelerating reaction.

## Section 11 – Toxicological Information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation. May include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Toxicity data for components

Components	Result	Species	Dose	Exposure
3-Ethyl-2-methyl-2-(3-methylbutyl)1,3-oxazolidine (CAS# 143860-04-2)	LD50 oral	Rat, male	4,400 mg/kg	--
	LD50 oral	Rat, female	3,000 mg/kg	--
	LD50 dermal	Rat, male and female	> 2,000 mg/kg	--
Propoxylated amine (CAS# 102-60-3)	LD50 oral	Rat	>3000 mg/kg	--
Benzene,1-Chloro-4 (Trifluoromethyl) (CAS# 98-56-6)	LD50 oral	Rat	>6.8 g/kg	--
	LD50 dermal	Rabbit	>2.7 g/kg	--
	LC50	Rat	> 4479 ppm	--

### Toxicity of other components not established

#### Acute Toxicity/Effects

Acute toxicity Assessment of acute toxicity: Product: not established

Assessment other acute effects Assessment of STOT single: Product: not established.

Irritation / corrosion Assessment of irritating effects: Corrosive! Damages skin and eyes.

Sensitization Assessment of sensitization: No data available.

Aspiration Hazard No aspiration hazard expected.

#### Chronic Toxicity/Effects

Repeated dose toxicity Assessment of repeated dose toxicity: Product: not established

Genetic toxicity Assessment of mutagenicity: Product: not established.

Carcinogenicity Assessment of carcinogenicity: No data available concerning carcinogenic effects.

Reproductive toxicity Assessment of reproduction toxicity: Product: not established.

Teratogenicity Assessment of teratogenicity: Product: not established.

Other Information No experimental evidence available for genotoxicity in vitro (Ames test negative).  
Literature data.

## Section 12 – Ecological Information

**Ecology:** Harmful to aquatic life

### Ecological Data for components

Components	Acute Toxicity	Time	Species	Exposure
3-Ethyl-2-methyl-2-(3-methylbutyl)1,3-oxazoldine (CAS# 143860-04-2)	LC50 (129 mg/L)	96.0 h	Rainbow trout	--
	EC50 (52.00 mg/L)	48.0 hg	Water flea	--
	EbC50 (0.99 mg/L)	72 h	Green algae	--
	End point: Biomass EC50 (> 100 mg/L)	3 h	activated sludge	--
Propoxylated amine (CAS# 102-60-3)	Not available	--	--	--
Benzene,1-Chloro-4 (Trifluoromethyl) (CAS# 98-56-6)	LC50 (13.5 mg/L)	96 h	Rainbow trout	--
	LC50 (12.0 mg/L)	96 h	Bluegill sunfish	--
	LC50 (12.4 mg/L)	48 h	Water flea	--
	IC50 (500 mg/L)	72 h	Green & Blue-green algae	--

### Bioaccumulation

Not established for product.

### Persistence and degradability

Not available for product.

## Section 13 – Disposal Consideration

### Waste Disposal Method:

Waste disposal should be in accordance with existing federal, state and local environmental control laws. Incineration is the preferred method.

### Empty Container Precautions

Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed prior to disposal.

## Section 14 – Transportation Information

### Land transport

**Benzene,1-Chloro-4 (Trifluoromethyl) (CAS# 98-56-6) does not sustain combustion as determined by ASTM D 4206. It is therefore excepted from classification as a flammable liquid (see 49 CFR 173.20(a)(3))**

**USDOT**

**Not regulated**

### Sea transport

**Not regulated. Not a marine pollutant**

### Air transport

**Not regulated**

## Section 15 – Regulatory Information

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### United States Federal Regulations

**US Toxic Substances Control Act:** Listed on the TSCA Inventory

**U.S. EPA EPCRA 311/312 (Hazard categories):** Acute;

### **NFPA Hazard codes:**

Health: 1      Fire: 2      Reactivity: 1      Special:

### **HMIS III rating**

Health: 1      Flammability: 2      Physical hazard: 0

### **Assessment of the hazard classes according to UN GHS criteria (most recent version):**

<b>Skin Corr./Irrit.</b>	<b>1C</b>	<b>Skin corrosion/irritation</b>
<b>Aquatic Acute</b>	<b>3</b>	<b>Hazardous to the aquatic environment - acute</b>
<b>Aquatic Chronic</b>	<b>2</b>	<b>Hazardous to the aquatic environment - chronic</b>
<b>Eye Dam. /Irrit.</b>	<b>1</b>	<b>Serious eye damage/eye irritation</b>

## Section 16 – Other Information

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The method of hazard communication for SplatSeal Ltd is comprised of Product Labels and Safety Data Sheets.

Contact: SplatSeal Ltd  
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Version Date: 02/18/2018  
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