Safety Data Sheet GenTite RRS

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product identifier

**Product Name** 

- All Purpose Bonding Adhesive LVOC-1168
- 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) Construction

1.3 Details of the supplier of the safety data sheet

Manufacturer 26 Century Boulevard, Suite 205

Nashville, Tennessee 37214

**Telephone (General)** 800-428-4442

### 1.4 Emergency telephone number

Manufacturer (800) 424-9300 - CHEMTREC

Manufacturer (703) 527-3887 - CHEMTREC - International

### **Section 2: Hazards Identification**

### **EU/EEC**

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

### 2.1 Classification of the substance or mixture

**CLP** 

Flammable Liquids 2 - H225
 Skin Irritation 2 - H315
 Eye Irritation 2 - H319

Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335

Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

Reproductive Toxicity 2 - H361d

EUH066

**DSD/DPD** • Highly Flammable (F)

Irritant (Xi)

Substances Toxic To Reproduction - Category 3

R11, R36/37/38, R63, R66, R67

## 2.2 Label Elements

**CLP** 

### **DANGER**







- Hazard statements . H225 Highly flammable liquid and vapour
  - H315 Causes skin irritation
  - H319 Causes serious eve irritation
  - H335 May cause respiratory irritation
  - H336 May cause drowsiness or dizziness
  - H361d Suspected of damaging the unborn child.
  - EUH066 Repeated exposure may cause skin dryness or cracking.

### **Precautionary statements**

- **Prevention** P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P210 Keep away from heat, sparks, open flames and/or hot surfaces. No smoking.
  - P233 Keep container tightly closed.
  - P240 Ground and/or 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.
  - P261 Avoid breathing mist/vapours/spray.
  - P264 Wash thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P281 Use personal protective equipment as required.

- **Response** P370+P378 In case of fire: Use appropriate media for extinction.
  - P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

  - comfortable for breathing.
    P312 Call a POISON CENTER or doctor/physician if you feel unwell.
    P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P321 Specific treatment, see supplemental first aid information.
  - P332+P313 If skin irritation occurs: Get medical advice/attention.
  - P362 Take off contaminated clothing and wash 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.
  - P308+P313 IF exposed or concerned: Get medical advice/attention.

### Storage/Disposal .

- P233 Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

#### DSD/DPD







### Risk phrases •

- R11 Highly flammable.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R63 Possible risk of harm to the unborn child.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

### Safety phrases •

- S9 Keep container in a well ventilated place
- S16 Keep away from sources of ignition No Smoking.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37 Wear suitable gloves.

### 2.3 Other Hazards

CLP

According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

According to European Directive 1999/45/EC this preparation is considered dangerous.

## **United States (US)**

### According to OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

OSHA HCS 2012

Flammable Liquids 2 - H225 Skin Irritation 2 - H315 Eve Irritation 2A - H319

Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335

Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

Reproductive Toxicity 2 - H361

### 2.2 Label elements OSHA HCS 2012

### **DANGER**







Hazard statements . Highly flammable liquid and vapour - H225

Causes skin irritation - H315

Causes serious eye irritation - H319 May cause respiratory irritation - H335 May cause drowsiness or dizziness - H336

Suspected of damaging fertility or the unborn child. - H361

### **Precautionary statements**

**Prevention** • Obtain special instructions before use. - P201

Do not handle until all safety precautions have been read and understood. - P202 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210

Keep container tightly closed. - P233

Ground and/or bond container and receiving equipment. - P240 Use explosion-proof electrical/ventilating/lighting/equipment. - P241

Use only non-sparking tools. - P242

Take precautionary measures against static discharge. - P243

Avoid breathing mist/vapours/spray. - P261 Wash thoroughly after handling. - P264

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

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

Use personal protective equipment as required. - P281

Response • In case of fire: Use appropriate media for extinction. - P370+P378

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

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower. - P303+P361+P353

Specific treatment, see supplemental first aid information. - P321 If skin irritation occurs: Get medical advice/attention. - P332+P313 Take off contaminated clothing and wash before reuse. - P362

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. - P305+P351+P338 If eye irritation persists: Get medical advice/attention. - P337+P313 IF exposed or concerned: Get medical advice/attention. - P308+P313

### Storage/Disposal .

Keep container tightly closed. - P233

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

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

### 2.3 Other hazards

**OSHA HCS 2012** 

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

### Canada

### **According to WHMIS**

### 2.1 Classification of the substance or mixture

**WHMIS** 

Flammable Liquids - B2
 Other Toxic Effects - D2A
 Other Toxic Effects - D2B

# 2.2 Label elements WHMIS





Flammable Liquids - B2
 Other Toxic Effects - D2A
 Other Toxic Effects - D2B

# 2.3 Other hazards WHMIS

• In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.

### Section 3 - Composition/Information on Ingredients

### 3.1 Substances

 Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

### 3.2 Mixtures

	Composition						
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments		
1-Chloro-4- (trifluoromethyl) benzene	CAS:98-56-6 EC Number:202- 681-1	30% TO 60%	Ingestion/Oral-Rat LD50 • 13 g/kg Inhalation-Rat LC50 • 22 g/m³	EU DSD/DPD: Self Classified: Xi, R36/37/38 EU CLP: Self Classified: Eye Irrit. 2, H319; Skin Irrit. 2, H315; STOT SE 3 - Resp. Irrit., H335 OSHA HCS 2012: Eye Irrit. 2A; Skin Irrit. 2; STOT SE 3: Resp. Irrit.	NDA		
Acetone	CAS:67-64-1 EC Number:200- 662-2	10% TO 40%	Inhalation-Rat LC50 • 50100 mg/m³ 8 Hour (s) Ingestion/Oral-Rat LD50 • 5800 mg/kg	EU DSD/DPD: Annex I: F; R11 Xi; R36 R66 R67 EU CLP: Annex VI: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336; EUH066 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3: Narc.	NDA		
Acetic acid, methyl ester	CAS:79-20-9 EC Number:201- 185-2	1% TO 15%	Ingestion/Oral-Rat LD50 • >5 g/kg Skin-Rabbit LD50 • >5 g/kg	EU DSD/DPD: Annex I: F; R11 Xi; R36 R66 R67 EU CLP: Annex VI: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336; EUH066 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2; Skin Irrit. 2; STOT RE 3: Narc. & Resp. Irrit.	NDA		
			Ingestion/Oral-Rat	<b>EU DSD/DPD:</b> Annex I: F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67			

Toluene EC	AS:108-88-3 C lumber:203- 25-9	LD50 • 636 mg/kg Inhalation-Rat LC50 • 49 g/m³ 4 Hour(s) Skin-Rabbit LD50 • 14100 µL/kg	<b>EU CLP:</b> Annex VI: Flam. Liq. 2, H225; Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2, H373; Skin Irrit. 2, H315; STOT SE 3: Narc., H336 <b>OSHA HCS 2012:</b> Flam. Liq. 2; Repr. 2; Acute Tox. 4 (Oral); STOT SE 3: Narc.; Asp. Tox. 1; Eye Irrit. 2B	NDA
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See Section 11 for Toxicological Information.

### **Section 4 - First Aid Measures**

### 4.1 Description of first aid measures

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eve

Ingestion

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

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

Refer to Section 11 - Toxicological Information.

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

**Notes to Physician** 

 All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

Suitable Extinguishing Media . CAUTION: For mixtures containing a high percentage of an alcohol or polar solvent, alcohol-resistant foam may be more effective.

LARGE FIRES: Water spray, fog or alcohol-resistant foam.

SMALL FIRES: Dry chemical, CO2, water spray or alcohol-resistant foam.

**Unsuitable Extinguishing** Media

None known.

### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** 

 HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated.

Vapor explosion hazard indoors, outdoors or in sewers.

Many liquids are lighter than water.

Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).

Runoff to sewer may create fire or explosion hazard.

Vapors may form explosive mixtures with air.

Vapors may travel to source of ignition and flash back.

Dried solids can burn and release toxic fumes and vapors.

## **Products**

**Hazardous Combustion** 

Carbon dioxide, carbon monoxide, oxides of nitrogen, hydrogen chloride, various hydrocarbons, phenols, acrid smoke and irritating fumes.

### 5.3 Advice for firefighters

No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if you can do it without risk. Structural firefighters' protective clothing will only provide limited protection.

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA).

### **Section 6 - Accidental Release Measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions**

 Ventilate enclosed areas. Wear appropriate protective clothing. Do not touch or walk through spilled material.

#### **Emergency Procedures**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) Keep out of low areas. Stay upwind. Keep unauthorized personnel away. Ventilate closed spaces before entering.

### 6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

Containment/Clean-up **Measures** 

Stop leak if you can do it without risk.

A vapor suppressing foam may be used to reduce vapors.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders,

sawdust).

Use clean non-sparking tools to collect absorbed material.

All equipment used when handling the product must be grounded.

### 6.4 Reference to other sections

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

Handling

• Keep away from fire. Keep away from heat and sparks. Do not eat, drink or smoke when using this product. After handling wash hands thoroughly. Prevent formation of aerosols. All equipment used when handling the product must be grounded. Bond and ground all transfer containers and equipment. Take precautionary measures against static charges. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near container.

## 7.2 Conditions for safe storage, including any incompatibilities

Storage

Store in a cool, dry place. Store in a well-ventilated place. Keep container tightly closed. Keep away from fire.

### 7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits/Guidelines							
Result ACGIH Canada Alber			Canada Alberta	Canada British Columbia	Canada Manitoba	Canada New Brunswick	
Toluene (108-88-3)	TWAs	20 ppm TWA	50 ppm TWA; 188 mg/m3 TWA	20 ppm TWA	IZU DDM I VVA	50 ppm TWA; 188 mg/m3 TWA	

Acetic acid, methyl ester	STELs	250 ppm STEL	250 ppm STEL; 757 mg/m3 STEL	250 ppm STEL	250 ppm STEL	250 ppm STEL; 757 mg/m3 STEL					
(79-20-9)	TWAs	200 ppm TWA	200 ppm TWA; 606 mg/m3 TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA; 606 mg/m3 TWA					
Acetone	STELs	750 ppm STEL	750 ppm STEL; 1800 mg/m3 STEL	500 ppm STEL	750 ppm STEL	750 ppm STEL; 1782 mg/m3 STEL					
(67-64-1)	TWAs	500 ppm TWA	500 ppm TWA; 1200 mg/m3 TWA	250 ppm TWA	500 ppm TWA	500 ppm TWA; 1188 mg/m3 TWA					
	Exposure Limits/Guidelines (Con't.)										
	Result	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut	Canada Ontario	Canada Quebec					
Toluene	STELs	150 ppm STEL; 560 mg/m3 STEL	Not established	150 ppm STEL; 560 mg/m3 STEL	Not established	Not established					
(108-88-3)	TWAs	100 ppm TWA; 375 mg/m3 TWA	20 ppm TWA	100 ppm TWA; 375 mg/m3 TWA	20 ppm TWA	50 ppm TWAEV; 188 mg/m3 TWAEV					
Acetic acid, methyl	STELs	250 ppm STEL; 760 mg/m3 STEL	250 ppm STEL	250 ppm STEL; 760 mg/m3 STEL	250 ppm STEL	250 ppm STEV; 757 mg/m3 STEV					
ester (79-20-9)	TWAs	200 ppm TWA; 605 mg/m3 TWA	200 ppm TWA	200 ppm TWA; 605 mg/m3 TWA	200 ppm TWA	200 ppm TWAEV; 606 mg/m3 TWAEV					
Acetone	STELs	1250 ppm STEL; 2970 mg/m3 STEL	750 ppm STEL	1250 ppm STEL; 2970 mg/m3 STEL	750 ppm STEL	1000 ppm STEV; 2380 mg/m3 STEV					
(67-64-1)	TWAs	1000 ppm TWA; 2370 mg/m3 TWA	500 ppm TWA	1000 ppm TWA; 2370 mg/m3 TWA	500 ppm TWA	500 ppm TWAEV; 1190 mg/m3 TWAEV					
		Ex	posure Limits/Gui	delines (Con't.)							
	Result	Canada Saskatchewan	Canada Yukon	Denmark	Europe	Germany DFG					
	STELs	Not established	150 ppm STEL; 560 mg/m3 STEL	Not established	100 ppm STEL; 384 mg/m3 STEL	Not established					
Toluene	TWAs	50 ppm TWA	100 ppm TWA; 375 mg/m3 TWA	25 ppm TWA; 94 mg/m3 TWA	50 ppm TWA; 192 mg/m3 TWA	Not established					
(108-88-3)	Ceilings	Not established	Not established	Not established	Not established	200 ppm Peak; 760 mg/m3 Peak					
	MAKs	Not established	Not established	Not established	Not established	50 ppm TWA MAK; 190 mg/m3 TWA MAK					
			000 TIMA 040								
A 4i i 4i 1	TWAs	200 ppm TWA	200 ppm TWA; 610 mg/m3 TWA	150 ppm TWA; 455 mg/m3 TWA	Not established	Not established					
Acetic acid, methyl	STELs	200 ppm TWA  Not established			Not established  Not established	Not established  Not established					
Acetic acid, methyl ester (79-20-9)	STELs	Not established	mg/m3 TWA 250 ppm STEL; 760	mg/m3 TWA							
ester	STELs	Not established	mg/m3 TWA 250 ppm STEL; 760 mg/m3 STEL	mg/m3 TWA  Not established	Not established	Not established 400 ppm Peak; 1240					
ester	STELs Ceilings	Not established  Not established	mg/m3 TWA 250 ppm STEL; 760 mg/m3 STEL  Not established	mg/m3 TWA  Not established  Not established  Not established	Not established  Not established	Not established  400 ppm Peak; 1240 mg/m3 Peak  100 ppm TWA MAK; 310 mg/m3 TWA					
ester	STELs Ceilings MAKs	Not established  Not established  Not established	mg/m3 TWA  250 ppm STEL; 760 mg/m3 STEL  Not established  Not established  1000 ppm TWA; 2400	mg/m3 TWA  Not established  Not established  Not established  250 ppm TWA; 600	Not established  Not established  Not established	Not established  400 ppm Peak; 1240 mg/m3 Peak  100 ppm TWA MAK; 310 mg/m3 TWA MAK					

	MAKs	Not establ	ished	Not established	Not established	Not established	500 ppm TWA MAK; 1200 mg/m3 TWA MAK
			Ex	posure Limits/Gui	delines (Con't.)		
			Result	NIOSH		OSHA	
			Ceilings	Not established		300 ppm Ceiling	
Toluene (108-88-3)			TWAs	100 ppm TWA; 375 mg/m3 TWA		200 ppm TWA	
(100 00 0)	(100-00-3)		STELs	150 ppm STEL; 560 mg/m3 STEL		Not established	
	Acetic acid, methyl		TWAs	200 ppm TWA; 610 mg/m3 TWA		200 ppm TWA; 610 mg/m3 TWA	
ester (79-20-9)			STELs	250 ppm STEL; 760 mg/m3 STEL		Not established	
Acetone (67-64-1)			TWAs	250 ppm TWA; 590 mg/m3 TWA		1000 ppm TWA; 240 mg/m3 TWA	0

### **Exposure Control Notations**

**Germany TRGS** 

•Toluene (108-88-3): Skin: (skin notation)

**Germany DFG** 

•Acetic acid, methyl ester (79-20-9): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Pregnancy:** (classification not yet possible) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)

### 8.2 Exposure controls

### Engineering Measures/Controls

 Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

### **Personal Protective Equipment**

Respiratory

 In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face Skin/Body

- Wear splash goggles.
- Wear clothing and footwear that cannot be penetrated by chemicals or oil.

# General Industrial Hygiene Considerations

Avoid contact with skin, eyes or clothing. Keep away from food, drink and animal feeding stuffs. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Handle in accordance with good industrial hygiene and safety practice.

# **Environmental Exposure Controls**

 Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

STEV = Short Term Exposure Value

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

### **Section 9 - Physical and Chemical Properties**

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Amber liquid with characteristic odor.
Color	Amber	Odor	Characteristic
Odor Threshold	Data lacking		
General Properties		-	
Boiling Point	55 C(131 F)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	рН	Data lacking
Specific Gravity/Relative Density	1.14 Water=1	Water Solubility	Insoluble
Viscosity	Data lacking	Explosive Properties	Not explosive.
Oxidizing Properties:	Not an oxidizer.		
Volatility		-	ü
Vapor Pressure	233 hPa	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability		•	
Flash Point	-19 C(-2.2 F)	UEL	13 %
LEL	2.6 %	Autoignition	Data lacking
Flammability (solid, gas)	Flammable Liquid.		
Environmental	-	-	
Octanol/Water Partition coefficient	Data lacking		

### 9.2 Other Information

No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

Avoid flames, sparks, or other sources of ignition.

### 10.5 Incompatible materials

Acids, alkalies, strong oxidizers.

### 10.6 Hazardous decomposition products

 Carbon monoxide, carbon dioxide, hydrocarbon, hydrogen chloride and other acrid products of combustion.

## Section 11 - Toxicological Information

## 11.1 Information on toxicological effects

Component Name	CAS	Data			
Acetone (10% TO 40%)	67-64-1	Acute Toxicity: orl-rat LD50:5800 mg/kg; ihl-rat LC50:50100 mg/m3/8H; Irritation: eye-rbt 20 mg/24H MOD; skn-rbt 500 mg/24H MLD; Mutagen: sln-mus-ihl 12 gm/L; Reproductive: orl-rat TDLo:273 gm/kg (13W male); ihl-rat TCLo:11000 ppm (6-19D preg)			
1-Chloro-4-(trifluoromethyl) benzene (30% TO 60%)	98-56-6	Acute Toxicity: orl-rat LD50:13 gm/kg			
Toluene (1% TO 7%) 108-88-3		Acute Toxicity: orl-rat LD50:636 mg/kg; ihl-rat LC50:49 gm/m3/4H; skn-rbt LD50:14100 uL/kg; Irritation: eye-rbt 100 mg/30S rinse MLD; skn-rbt 435 mg MLD; Reproductive: ihl-rat TCLo:1500 ppm (7-20D preg)			
Acetic acid, methyl ester (1% TO 15%) 79-20-9		Acute Toxicity: orl-rat LD50:>5 gm/kg; skn-rbt LD50:>5 gm/kg; Irritation: eye-rbt 100 mg/24H MOD; skn-rbt 20 mg/24H MOD			
GHS Properties		Classification			
		ELICI D. Classification criteria not mot			

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	<b>EU/CLP</b> • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects;Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation <b>OSHA HCS 2012</b> • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects;Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	EU/CLP • Toxic to Reproduction 2 OSHA HCS 2012 • Toxic to Reproduction 2
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2A

### Route(s) of entry/exposure Potential Health Effects Inhalation

• Inhalation, Skin, and Eye

Acute (Immediate)

 May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)

No data available

Skin

Acute (Immediate)

Causes skin irritation.

**Chronic (Delayed)** 

Acute (Immediate)

**Chronic (Delayed)** 

Ingestion

Acute (Immediate)

Chronic (Delayed)

**Carcinogenic Effects** 

Reproductive Effects Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

MLD = Mild

Repeated exposure may cause skin dryness or cracking.

Causes serious eye irritation.

No data available.

Although swallowing this product is an unlikely means of exposure, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion.

The ingredients of this product are not classified as carcinogenic by ACGIH or IARC. not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

Repeated or prolonged exposure to toluene may cause reproductive effects.

MOD = Moderate

TC = Toxic Concentration

### **Section 12 - Ecological Information**

### 12.1 Toxicity

All Purpose Bonding Adhesive LVOC-1168					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
= 6.8 mg/L	Crustacea: Daphnia Magna	48 Hour(s)	EC50	NDA	Data for Toluene
= 28 mg/L	Crustacea: Daphnia Magna	48 Hour(s)	NOEC	NDA	Data for Toluene

### 12.2 Persistence and degradability

Material data lacking.

### 12.3 Bioaccumulative potential

Material data lacking.

### 12.4 Mobility in Soil

Material data lacking.

### 12.5 Results of PBT and vPvB assessment

No PBT and vPvB assessment has been conducted.

### 12.6 Other adverse effects

No studies have been found.

### 12.7 Other Information

Water hazard class 2 (Self-assessment): hazardous to water. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

## **Section 13 - Disposal Considerations**

### 13.1 Waste treatment methods

**Product waste** 

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### **Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1133	Adhesives	3	II	NDA
TDG	UN1133	ADHESIVES	3	II	NDA
IMO/IMDG	UN1133	ADHESIVES	3	II	NDA
ADN	UN1133	ADHESIVES	3	II	NDA
ADR/RID	UN1133	ADHESIVES	3	II	NDA
IATA/ICAO	UN1133	Adhesives	3	II	NDA

14.6 Special precautions for user

None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

14.8 Other information

**DOT** • Acetone has a reportable quantity of 5000 lbs (2270 kg) as listed in Appendix A to 49 CFR 172.101. Toluene has a reportable quantity of 1000 lbs (454 kg) as listed in Appendix A to 49 CFR 172.101.

### **Section 15 - Regulatory Information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** • Acute, Chronic, Fire

State Right To Know						
Component	CAS	MA	NJ	PA		
Acetone	67-64-1	Yes	Yes	Yes		
1-Chloro-4- (trifluoromethyl) benzene	98-56-6	No	No	No		
Toluene	108-88-3	Yes	Yes	Yes		
Acetic acid, methyl ester	79-20-9	Yes	Yes	Yes		

Inventory							
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA	
Acetone	67-64-1	Yes	No	Yes	No	Yes	
1-Chloro-4- (trifluoromethyl) benzene	98-56-6	Yes	No	Yes	No	Yes	
Toluene	108-88-3	Yes	No	Yes	No	Yes	
Acetic acid, methyl ester	79-20-9	Yes	No	Yes	No	Yes	

### Canada

#### Labor

#### Canada - WHMIS - Classifications of Substances

Acetic acid, methyl ester
1-Chloro-4-(trifluoromethyl) benzene
Acetone
Toluene
B2, D2B
Not Listed
B2, D2B
Toluene
B2, D2B
B2, D2A, D2B

### Canada - WHMIS - Ingredient Disclosure List

Acetic acid, methyl ester
1-Chloro-4-(trifluoromethyl) benzene
Acetone
Toluene
1 %
Not Listed
1 %
108-88-3
1 %

#### **Environment**

### Canada - CEPA - Priority Substances List

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 79-20-9
 Not Listed
 Not Listed
 Not Listed
 Not Listed

Toluene 108-88-3 Priority Substance List 1 (substance not considered toxic)

#### Denmark

#### Environment

#### Denmark - List of Undesirable Substances - Product Groups/Function

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 79-20-9
 Not Listed
 Not Listed
 Not Listed

• Toluene 108-88-3 Solvents in a wide range of products including paints, coatings and cooling lubricants

### Europe

#### Other

### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

Acetic acid, methyl ester
 79-20-9 F; R11 Xi; R36 R66 R67

• 1-Chloro-4-(trifluoromethyl) benzene 98-56-6 Not Listed

• Acetone 67-64-1 F; R11 Xi; R36 R66 R67

• Toluene 108-88-3 F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

Acetic acid, methyl ester
 79-20-9
 F Xi R:11-36-66-67 S:(2)-16-26-29-33

• 1-Chloro-4-(trifluoromethyl) benzene 98-56-6 Not Listed

• Acetone 67-64-1 F Xi R:11-36-66-67 S:(2)-9-16-26

• Toluene 108-88-3 F Xn R:11-38-48/20-63-65-67 S:(2)-36/37-46-62

### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 98-56-6
 Not Listed
 Not Listed
 Not Listed

• Toluene 108-88-3 Not Listed

### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 S:(2)-16-26-29-33
 Not Listed
 S:(2)-9-16-26
 S:(2)-9-16-26
 S:(2)-36/37-46-62

### **United States**

#### Labor

### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

#### U.S. - OSHA - Specifically Regulated Chemicals

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

#### **Environment**

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 79-20-9
 Not Listed
 Not Listed
 Not Listed

• Toluene 108-88-3

### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 98-56-6
 Not Listed

Acetone
 Toluene
 67-64-1
 5000 lb final RQ; 2270 kg final RQ
 1000 lb final RQ; 454 kg final RQ

### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Acetic acid, methyl ester
 98-56-6
 Not Listed
 Not Listed
 Not Listed
 Not Listed

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Acetic acid, methyl ester
 98-56-6
 Not Listed
 Not Listed
 Not Listed
 Not Listed

### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 79-20-9
 Not Listed
 Not Listed
 Not Listed

• Toluene 108-88-3 1.0 % de minimis concentration

#### U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

#### U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 98-56-6
 Not Listed

Acetone 67-64-1 Included in waste stream: F039

• Toluene 108-88-3 Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151

### U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 98-56-6
 Not Listed

Acetone 67-64-1Toluene 108-88-3

#### U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 98-56-6
 Not Listed
 Not Listed
 Not Listed

Toluene 108-88-3 waste number U220

#### U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 98-56-6
 Not Listed

Acetone 67-64-1Toluene 108-88-3

#### U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 98-56-6
 Not Listed

Acetone
 Toluene
 67-64-1
 0.28 mg/L (wastewater); 160 mg/kg (nonwastewater)
 108-88-3
 0.080 mg/L (wastewater); 10 mg/kg (nonwastewater)

### U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 98-56-6
 Not Listed

Acetone 67-64-1Toluene 108-88-3

# U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 98-56-6
 Not Listed

Acetone 67-64-1 waste number U002 (Ignitable waste)

• Toluene 108-88-3 waste number U220

### **United States - California**

### Environment

### U.S. - California - Proposition 65 - Carcinogens List

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

### U.S. - California - Proposition 65 - Developmental Toxicity

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 98-56-6
 Not Listed
 Not Listed
 Not Listed

• Toluene 108-88-3 developmental toxicity, initial date 1/1/91

#### U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 79-20-9
 Not Listed
 Not Listed
 Not Listed

Toluene 108-88-3 7000 μg/day MADL (level represents absorbed dose)

#### U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

### U.S. - California - Proposition 65 - Reproductive Toxicity - Female

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 98-56-6
 Not Listed
 Not Listed
 Not Listed

Toluene 108-88-3 female reproductive toxicity, initial date 8/7/09

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Male

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

### **United States - Pennsylvania**

#### Labor

### U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 98-56-6
 Not Listed

Acetone 67-64-1Toluene 108-88-3

### U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 Toluene
 Not Listed
 Not Listed
 Not Listed
 Not Listed
 Not Listed

### **United States - Rhode Island**

#### Labor

#### U.S. - Rhode Island - Hazardous Substance List

Acetic acid, methyl ester
 1-Chloro-4-(trifluoromethyl) benzene
 Acetone
 79-20-9 Toxic; Flammable
 Not Listed
 Toxic; Flammable

• Toluene 108-88-3 Toxic (skin); Flammable (skin)

### 15.2 Chemical Safety Assessment

No data available

### **Section 16 - Other Information**

### Relevant Phrases (code & full text)

• H304 - May be fatal if swallowed and enters airways

H373 - May cause damage to organs through prolonged or repeated exposure.

R36 - Irritating to eyes.

R38 - Irritating to skin.

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

R65 - Harmful: may cause lung damage if swallowed.

Date - March 25, 2024

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#### Key to abbreviations

NDA = No data available