

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier****Product Name** • NORBOND Adhesion Promoter™ 2287A**Product Code** • SDS No. 1001**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified use(s)** • Adhesion Promoter**1.3 Details of the supplier of the safety data sheet****Manufacturer** • Saint-Gobain Performance Plastics  
One Sealants Park  
Granville, NY 12832  
United States  
www.foams.saint-gobain.com**Telephone (General)** • 518-642-2200**1.4 Emergency telephone number****Manufacturer** • CHEMTREC 800-424-9300**Key to abbreviations**

‡ = HMIS is a registered trademark of the American Coatings Association

**Section 2: Hazards Identification****2.1 Classification of the substance or mixture**

- Flammable Liquids 2 - H225  
Eye Irritation 2 - H319  
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336  
EUH066

**DSD/DPD** • Highly Flammable (F)  
Irritant (Xi)  
R11, R36, R66, R67**2.2 Label Elements****DANGER****Hazard statements** • H225 - Highly flammable liquid and vapour  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
EUH066 - Repeated exposure may cause skin dryness or cracking.**Precautionary statements**

- Prevention**
- 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.

- 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.
  - 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.

- Storage/Disposal**
- P235 - Keep cool.
  - P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
  - P405 - Store locked up.
  - 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 - Irritating to eyes.
  - 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.

### 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
  - Eye Irritation 2A - H319
  - Acute Toxicity Inhalation 4 - H332
  - Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
  - Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
  - Specific Target Organ Toxicity Repeated Exposure 2 - H373

#### 2.2 Label elements

OSHA HCS 2012

**DANGER**



- Hazard statements**
- Highly flammable liquid and vapour - H225

Causes serious eye irritation - H319  
Harmful if inhaled - H332  
May cause respiratory irritation - H335  
May cause drowsiness or dizziness - H336  
May cause damage to organs - brain and central nervous system through prolonged or repeated exposure - H373

### Precautionary statements

- Prevention** • Keep away from heat, sparks, open flames and/or hot surfaces. - 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  
Do not breathe dust, fume, gas, mist, vapours and/or spray. - P260  
Avoid breathing mist/vapours/spray. - P261  
Wash thoroughly after handling. - P264  
Use only outdoors or in a well-ventilated area. - P271
- 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  
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 if you feel unwell: Call a POISON CENTER or doctor/physician. - P309+P311

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

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## 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).

## 2.4 Other information

- 1.35 - 1.8 (inhl) percent of this product consists of an ingredient of unknown toxicity.

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

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Acetic acid ethyl ester	<b>CAS:</b> 141-78-6 <b>EC Number:</b> 205-500-4 <b>UN:</b> UN1173	60% TO 100%	Ingestion/Oral-Rat LD50 • 5620 mg/kg Inhalation-Rat LC50 • 200 g/m <sup>3</sup> Skin-Rabbit LD50 • >20 mL/kg	<b>EU DSD/DPD:</b> Annex I - F, R11; Xi R36 R66, R67 <b>EU CLP:</b> Annex VI - Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336; EUH066 <b>OSHA HCS 2012:</b> Eye Irrit. 2A; STOT SE 3: Narc & Resp. Irrit; Acute Tox 4 (inhalation)	NDA
Acrylic Polymer	NDA	1% TO 5%	NDA	<b>EU DSD/DPD:</b> Data Lacking <b>EU CLP:</b> Data Lacking <b>OSHA HCS 2012:</b> Data Lacking	
Toluene	<b>CAS:</b> 108-88-3 <b>EC Number:</b> 203-625-9 <b>UN:</b> UN1294	1% TO 5%	Ingestion/Oral-Rat LD50 • 636 mg/kg Inhalation-Rat LC50 • 49 g/m <sup>3</sup> 4 Hour(s) Skin-Rabbit LD50 • 14100 µL/kg	<b>EU DSD/DPD:</b> Annex I - F; R11 Repr. Cat. 3; R63 Xn; R48/20-65 Xi; R38 R67 <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, H336 <b>OSHA HCS 2012:</b> Flam. Liq. 2; Repr. 2; Acute Tox 4 (Oral); STOT SE 3: Narc.; Asp. Tox 1; STOT RE 2 (CNS and Brain)	NDA
Isopropyl alcohol	<b>CAS:</b> 67-63-0 <b>EC Number:</b> 200-661-7 <b>UN:</b> UN1219	0.1% TO 1%	Inhalation-Rat LC50 • 16000 ppm 8 Hour(s) Skin-Rabbit LD50 • 12800 mg/kg Ingestion/Oral-Rat LD50 • 5000 mg/kg	<b>EU DSD/DPD:</b> Annex I - F, R11; Xi R36 R67 <b>EU CLP:</b> Annex VI - Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc, H336 <b>OSHA HCS 2012:</b> Eye Irrit. 2, Flam. Liq. 2, STOT SE 3: Narc.	NDA

See Section 11 for Toxicological Information.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation** • Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Move victim to fresh air.
- Skin** • In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing and shoes. Wash skin with soap and water.
- Eye** • In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.
- Ingestion** • First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If large quantities are swallowed, call a physician 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**
- **SMALL FIRES:** Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.  
**LARGE FIRES:** Water spray, fog or alcohol-resistant foam.  
**CAUTION:** For mixtures containing a high percentage of an alcohol or polar solvent, alcohol-resistant foam may be more effective.

- Unsuitable Extinguishing Media**
- Water may be ineffective on flames, but may be used to keep fire exposed vessels cool.

### 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. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Many liquids are lighter than water. Runoff to sewer may create fire or explosion hazard.

- Hazardous Combustion Products**
- Carbon Monoxide.

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. **LARGE FIRES:** Cool containers with flooding quantities of water until well after fire is out.

## Section 6 - Accidental Release Measures

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

- Personal Precautions**
- **CAUTION:** Victim may be a source of contamination. Do not touch or walk through spilled material.

- Emergency Procedures**
- 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) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep unauthorized personnel away. Stay upwind. Keep out of low areas. 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. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors.

All equipment used when handling the product must be grounded.

LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

## 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** • Avoid contact with skin, eyes or clothing. Handle and open container with care. Keep away from fire. Keep away from heat and sparks.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage** • Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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 Ontario	Canada Quebec	China	Europe
Isopropyl alcohol (67-63-0)	STELs	400 ppm STEL	400 ppm STEL	500 ppm STEV; 1230 mg/m <sup>3</sup> STEV	700 mg/m <sup>3</sup> STEL	Not established
	TWAs	200 ppm TWA	200 ppm TWA	400 ppm TWAEV; 985 mg/m <sup>3</sup> TWAEV	350 mg/m <sup>3</sup> TWA	Not established
Toluene (108-88-3)	STELs	Not established	Not established	Not established	100 mg/m <sup>3</sup> STEL	100 ppm STEL; 384 mg/m <sup>3</sup> STEL
	TWAs	20 ppm TWA	20 ppm TWA	50 ppm TWAEV; 188 mg/m <sup>3</sup> TWAEV	50 mg/m <sup>3</sup> TWA	50 ppm TWA; 192 mg/m <sup>3</sup> TWA
Acetic acid ethyl ester (141-78-6)	STELs	Not established	Not established	Not established	300 mg/m <sup>3</sup> STEL	Not established
	TWAs	400 ppm TWA	400 ppm TWA	400 ppm TWAEV; 1440 mg/m <sup>3</sup> TWAEV	200 mg/m <sup>3</sup> TWA	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Germany DFG	Germany TRGS	NIOSH	OSHA	
Isopropyl alcohol (67-63-0)	TWAs	Not established	200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 500 mg/m <sup>3</sup> TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	400 ppm TWA; 980 mg/m <sup>3</sup> TWA	400 ppm TWA; 980 mg/m <sup>3</sup> TWA	
	STELs	Not established	Not established	500 ppm STEL; 1225 mg/m <sup>3</sup> STEL	Not established	
	Ceilings	400 ppm Peak; 1000 mg/m <sup>3</sup> Peak	Not established	Not established	Not established	Not established
	MAKs	200 ppm TWA MAK; 500 mg/m <sup>3</sup> TWA MAK	Not established	Not established	Not established	Not established
Toluene (108-88-3)	Ceilings	200 ppm Peak; 760 mg/m <sup>3</sup> Peak	Not established	Not established	300 ppm Ceiling	
	TWAs	Not established	50 ppm TWA AGW (The	100 ppm TWA; 375	200 ppm TWA	

			risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 190 mg/m <sup>3</sup> TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)	mg/m <sup>3</sup> TWA	
	STELs	Not established	Not established	150 ppm STEL; 560 mg/m <sup>3</sup> STEL	Not established
	MAKs	50 ppm TWA MAK; 190 mg/m <sup>3</sup> TWA MAK	Not established	Not established	Not established
Acetic acid ethyl ester (141-78-6)	TWAs	Not established	400 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 1500 mg/m <sup>3</sup> TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	400 ppm TWA; 1400 mg/m <sup>3</sup> TWA	400 ppm TWA; 1400 mg/m <sup>3</sup> TWA
	Ceilings	800 ppm Peak; 3000 mg/m <sup>3</sup> Peak	Not established	Not established	Not established
	MAKs	400 ppm TWA MAK; 1500 mg/m <sup>3</sup> TWA MAK	Not established	Not established	Not established

## Exposure Control Notations

### China

- Toluene (108-88-3): **Skin:** (Skin notation)

### Canada Quebec

- Toluene (108-88-3): **Skin:** (Skin designation)

### ACGIH

- Isopropyl alcohol (67-63-0): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

- Toluene (108-88-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

### Germany TRGS

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

### Germany DFG

- Acetic acid ethyl ester (141-78-6): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- Isopropyl alcohol (67-63-0): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- Toluene (108-88-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)

## Exposure Limits Supplemental

### ACGIH

- Acetic acid ethyl ester (141-78-6): **TLV Basis - Critical Effects:** (eye and upper respiratory tract irritation)
- Isopropyl alcohol (67-63-0): **BEIs:** (40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)
- Toluene (108-88-3): **BEIs:** (0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene; 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene; 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)) | **TLV Basis - Critical Effects:** (female reproductive; pregnancy loss; visual impairment)

## 8.2 Exposure controls

### Engineering

#### Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

### 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**
  - Face shield, safety glasses, or chemical safety goggles should be worn at a minimum. Have emergency eyewash or safety shower in close proximity.
- Skin/Body**
  - Chemical-resistant, impervious gloves should be worn at all times when handling this product.
- Environmental Exposure Controls**
  - Follow best practice for site management and disposal of waste.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Slightly cloudy liquid with a sweet solvent odor.
Color	Cloudy	Odor	Sweet solvent odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	77 C(170.6 F)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	0.89 Water=1 @ 4 C(39.2 F)	Water Solubility	8 %
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	76 mmHg (torr) @ 20 C(68 F)	Vapor Density	3 Air=1
Evaporation Rate	6.15 n-Butyl Acetate = 1		
Flammability			
Flash Point	27 F(-2.7778 C) CC (Closed Cup)	UEL	11 %
LEL	2.2 %	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
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

- Sparks, fire, heat.

### 10.5 Incompatible materials

- Strong oxidizing agents, strong alkalies.

### 10.6 Hazardous decomposition products

- Thermal oxidative decomposition of can produce CO, CO<sub>2</sub>, Oxides of Nitrogen.



## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Component Name	CAS	Data
Acetic acid ethyl ester (60% TO 100%)	141-78-6	<b>Acute Toxicity:</b> orl-rat LD50:5620 mg/kg; ihl-rat LC50:1600 ppm/8H; <b>Irritation:</b> eye-hmn 400 ppm
Toluene (1% TO 5%)	108-88-3	<b>Acute Toxicity:</b> orl-rat LD50:636 mg/kg; ihl-rat LC50:49 gm/m3/4H; skn-rbt LD50:14100 uL/kg; <b>Irritation:</b> eye-rbt 100 mg/30S rinse MLD; skn-rbt 435 mg MLD; <b>Reproductive:</b> ihl-rat TCLo:1500 ppm (7-20D preg)
Isopropyl alcohol (0.1% TO 1%)	67-63-0	<b>Acute Toxicity:</b> orl-rat LD50:5045 mg/kg; ihl-rat LC50:16000 ppm/8H; skn-rbt LD50:12800 mg/kg
GHS Properties		Classification
Acute toxicity		<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Acute Toxicity 4 (Inhalation) - ATE Mix = 15.09 mg/l via inhalation with 1.35-1.8% Unknowns
Aspiration Hazard		<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Carcinogenicity		<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Germ Cell Mutagenicity		<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Skin corrosion/Irritation		<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Skin sensitization		<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
STOT-RE		<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE		<b>EU/CLP</b> •Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects <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		<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Respiratory sensitization		<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Serious eye damage/Irritation		<b>EU/CLP</b> •Eye Irritation 2 <b>OSHA HCS 2012</b> •Eye Irritation 2A

**Route(s) of entry/exposure** • Inhalation, Eye

#### Potential Health Effects

##### Inhalation

**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)** • May cause irritation.

**Chronic (Delayed)** • No data available.

##### Eye

**Acute (Immediate)** • Causes serious eye irritation.

**Chronic (Delayed)** • No data available.

##### Ingestion

- Acute (Immediate)**     • May cause irritation.  
**Chronic (Delayed)**     • No data available.

## Section 12 - Ecological Information

### 12.1 Toxicity

- No information available for the product.

### 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.

## 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, containing a flammable liquid	3	II	NDA
TDG	UN1133	ADHESIVES containing flammable liquid	3	II	Potential Marine Pollutant
IMO/IMDG	UN1133	ADHESIVES CONTAINING A FLAMMABLE LIQUID	3	II	NDA
IATA/ICAO	UN1133	Adhesives containing flammable liquid	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** • According to 49 CFR 172.101 Appendix A ethyl acetate (Acetic acid ethyl ester) has a reportable quantity of 5000lbs (2270kg) According to 49 CFR 172.101 Appendix A toluene has a reportable quantity of 1000lbs (454kg).

## 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
Acetic acid ethyl ester	141-78-6	Yes	Yes	Yes
Acrylic Polymer	NDA	No	No	No
Toluene	108-88-3	Yes	Yes	Yes
Proprietary	Proprietary	No	No	No
Proprietary	Proprietary	No	No	No
Isopropyl alcohol	67-63-0	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Acetic acid ethyl ester	141-78-6	Yes	No	Yes	Yes	No
Acrylic Polymer	NDA	No	No	No	No	No
Toluene	108-88-3	Yes	No	Yes	Yes	No
Proprietary	Proprietary	Yes	No	Yes	No	No
Proprietary	Proprietary	No	Yes	Yes	No	No
Isopropyl alcohol	67-63-0	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	TSCA
Acetic acid ethyl ester	141-78-6	Yes	Yes	Yes
Acrylic Polymer	NDA	No	No	No
Toluene	108-88-3	Yes	Yes	Yes
Proprietary	Proprietary	No	No	Yes
Proprietary	Proprietary	No	Yes	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes

## Australia

### Labor

#### Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

#### Australia - High Volume Industrial Chemicals List

- Acetic acid ethyl ester 141-78-6 60% TO 100%
- Isopropyl alcohol 67-63-0 0.1% TO 1%
- Toluene 108-88-3 1% TO 5%
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

#### Australia - List of Designated Hazardous Substances - Classification

- Acetic acid ethyl ester 141-78-6 60% TO 100% F, Xi R11, R36, R66, R67
- Isopropyl alcohol 67-63-0 0.1% TO 1% F, Xi R11, R36, R67
- Toluene 108-88-3 1% TO 5% F, Xn, Xi Repr.Cat.3 R11, R63, R48/20, R65, R38, R67
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

### Environment

#### Australia - National Pollutant Inventory (NPI) Substance List

- Acetic acid ethyl ester 141-78-6 60% TO 100% 10 tonne/yr Threshold category 1

- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
  - Toluene 108-88-3 1% TO 5% 10 tonne/yr Threshold category 1
  - Proprietary Proprietary 1.35% TO 1.8% Not Listed
  - Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Australia - Ozone Protection Act - Scheduled Substances**
- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
  - Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
  - Toluene 108-88-3 1% TO 5% Not Listed
  - Proprietary Proprietary 1.35% TO 1.8% Not Listed
  - Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Australia - Priority Existing Chemical Program**
- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
  - Isopropyl alcohol 67-63-0 0.1% TO 1% Candidate chemical
  - Toluene 108-88-3 1% TO 5% Candidate chemical
  - Proprietary Proprietary 1.35% TO 1.8% Not Listed
  - Proprietary Proprietary 1.35% TO 1.8% Not Listed

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

- Acetic acid ethyl ester 141-78-6 60% TO 100% B2
- Isopropyl alcohol 67-63-0 0.1% TO 1% B2, D2B (including 70%)
- Toluene 108-88-3 1% TO 5% B2, D2A, D2B
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

#### Canada - WHMIS - Ingredient Disclosure List

- Acetic acid ethyl ester 141-78-6 60% TO 100% 1 %
- Isopropyl alcohol 67-63-0 0.1% TO 1% 1 %
- Toluene 108-88-3 1% TO 5% 1 %
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

### Environment

#### Canada - CEPA - Priority Substances List

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% Priority Substance List 1 (substance not considered toxic)
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

## Europe

### Other

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% F; R11 Xi; R36 R66 R67
- Isopropyl alcohol 67-63-0 0.1% TO 1% F; R11 Xi; R36 R67
- Toluene 108-88-3 1% TO 5% F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% F Xi R:11-36-66-67 S:(2)-16-26-33
- Isopropyl alcohol 67-63-0 0.1% TO 1% F Xi R:11-36-67 S:(2)-7-16-24/25-26
- Toluene 108-88-3 1% TO 5% F Xn R:11-38-48/20-63-65-67 S:(2)-36/37-46-62
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed

•Isopropyl alcohol	67-63-0	0.1% TO 1%	Not Listed
•Toluene	108-88-3	1% TO 5%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed
<b>EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases</b>			
•Acetic acid ethyl ester	141-78-6	60% TO 100%	S:(2)-16-26-33
•Isopropyl alcohol	67-63-0	0.1% TO 1%	S:(2)-7-16-24/25-26
•Toluene	108-88-3	1% TO 5%	S:(2)-36/37-46-62
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed

## Mexico

### Other

#### Mexico - Hazard Classifications

•Acetic acid ethyl ester	141-78-6	60% TO 100%	Hazard Class = 3 PG = II UN1173
•Isopropyl alcohol	67-63-0	0.1% TO 1%	Hazard Class = 3 PG = II UN1219
•Toluene	108-88-3	1% TO 5%	Hazard Class = 3 PG = II UN1294
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed

#### Mexico - Regulated Substances

•Acetic acid ethyl ester	141-78-6	60% TO 100%	UN1173
•Isopropyl alcohol	67-63-0	0.1% TO 1%	UN1219
•Toluene	108-88-3	1% TO 5%	UN1294
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed

## United States

### Labor

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

•Acetic acid ethyl ester	141-78-6	60% TO 100%	Not Listed
•Isopropyl alcohol	67-63-0	0.1% TO 1%	Not Listed
•Toluene	108-88-3	1% TO 5%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed

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

•Acetic acid ethyl ester	141-78-6	60% TO 100%	Not Listed
•Isopropyl alcohol	67-63-0	0.1% TO 1%	Not Listed
•Toluene	108-88-3	1% TO 5%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed

### Environment

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

•Acetic acid ethyl ester	141-78-6	60% TO 100%	Not Listed
•Isopropyl alcohol	67-63-0	0.1% TO 1%	Not Listed
•Toluene	108-88-3	1% TO 5%	
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed

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

•Acetic acid ethyl ester	141-78-6	60% TO 100%	5000 lb final RQ; 2270 kg final RQ
•Isopropyl alcohol	67-63-0	0.1% TO 1%	Not Listed
•Toluene	108-88-3	1% TO 5%	1000 lb final RQ; 454 kg final RQ
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed

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

•Acetic acid ethyl ester	141-78-6	60% TO 100%	Not Listed
•Isopropyl alcohol	67-63-0	0.1% TO 1%	Not Listed
•Toluene	108-88-3	1% TO 5%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed
•Proprietary	Proprietary	1.35% TO 1.8%	Not Listed

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

•Acetic acid ethyl ester	141-78-6	60% TO 100%	Not Listed
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- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
- Toluene 108-88-3 1% TO 5% 1.0 % de minimis concentration
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

#### U.S. - CWA (Clean Water Act) - Hazardous Substances

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5%
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

#### U.S. - CWA (Clean Water Act) - Toxic Pollutants

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5%
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5%
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

## United States - California

### Environment

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% developmental toxicity, initial date 1/1/91
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% 7000 µg/day MADL (level represents absorbed dose)
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% female reproductive toxicity, initial date 8/7/09
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

## United States - Pennsylvania

### Labor

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

- Acetic acid ethyl ester 141-78-6 60% TO 100%
- Isopropyl alcohol 67-63-0 0.1% TO 1%
- Toluene 108-88-3 1% TO 5%
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 0.1% TO 1% Not Listed
- Toluene 108-88-3 1% TO 5% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

## United States - Rhode Island

### Labor

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

- Acetic acid ethyl ester 141-78-6 60% TO 100% Toxic; Flammable
- Isopropyl alcohol 67-63-0 0.1% TO 1% Toxic; Flammable
- Toluene 108-88-3 1% TO 5% Toxic (skin); Flammable (skin)
- Proprietary Proprietary 1.35% TO 1.8% Not Listed
- Proprietary Proprietary 1.35% TO 1.8% Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## Section 16 - Other Information

- Last Revision Date** • 20/July/2015  
**Preparation Date** • 16/April/2015

### Key to abbreviations

NDA = No data available

### Disclaimer/Statement of Liability

- Reasonable care has been taken in the preparation of this information, but the supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

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