

XPEL EDGE PREP

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : XPEL Edge Prep
Product code : PPF-Prep

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

XPEL TECHNOLOGIES, INC.
618 W. SUNSET
SAN ANTONIO, TX 78216
T 210-678-3700

1.4. Emergency telephone number

Emergency number : 210-315-8300

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
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

CLP

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.

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Response	<p>P370+P378 - In case of fire: Use appropriate media for extinction.</p> <p>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P312 - Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313 - If eye irritation persists: Get medical advice/attention.</p>
Storage/Disposal	<p>P235 - Keep cool.</p> <p>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 - Store locked up.</p> <p>P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.</p>

DSD/DPD



Risk phrases	<p>R11 - Highly flammable.</p> <p>R36 - Irritating to eyes.</p> <p>R66 - Repeated exposure may cause skin dryness or cracking.</p> <p>R67 - Vapours may cause drowsiness and dizziness.</p>
Safety phrases	<p>S9 - Keep container in a well ventilated place</p> <p>S16 - Keep away from sources of ignition - No Smoking.</p> <p>S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p>

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
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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. - 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**
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.

CANADA

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

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

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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	CAS:141-78-6 EC Number:205-500-4 UN:UN1173	60% TO 100%	Ingestion/Oral-Rat LD50 • 5620 mg/kg Inhalation-Rat LC50 200 g/m ³ Skin-Rabbit LD50 >20 mL/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: Eye Irrit. 2A; STOT SE 3: Narc & Resp. Irrit; Acute Tox 4 (inhalation)	NDA
Acrylic Polymer	NDA	1% TO 5%	NDA	EU DSD/DPD: Data Lacking EU CLP: Data Lacking OSHA HCS 2012: Data Lacking	
Toluene	CAS:108-88-3 EC Number:203-625-9 UN:UN1294	1% TO 5%	Ingestion/Oral-Rat LD50 636 mg/kg Inhalation-Rat LC50 49 g/m ³ 4 Hour(s) Skin-Rabbit LD50 14100 QL/kg	EU DSD/DPD: Annex I - F; R11 Repr. Cat. 3; R63 Xn; R48/20-65 Xi; R38 R67 EU CLP: 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 OSHA HCS 2012: 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	CAS:67-63-0 EC Number:200-661-7 UN: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	EU DSD/DPD: Annex I - F, R11; Xi R36 R67 EU CLP: Annex VI - Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc, H336 OSHA HCS 2012: 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.

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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, CO2, 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.

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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 ³ STEV	700 mg/m ³ STEL	Not established
	TWAs	200 ppm TWA	200 ppm TWA	400 ppm TWAEV; 985 mg/m ³ TWAEV	350 mg/m ³ TWA	Not established
Toluene (108-88-3)	STELs	Not established	Not established	Not established	100 mg/m ³ STEL	100 ppm STEL; 384 mg/m ³ STEL
	TWAs	20 ppm TWA	20 ppm TWA	50 ppm TWAEV; 188 mg/m ³ TWAEV	50 mg/m ³ TWA	50 ppm TWA; 192 mg/m ³ TWA
Acetic acid ethyl ester (141-78-6)	STELs	Not established	Not established	Not established	300 mg/m ³ STEL	Not established
	TWAs	400 ppm TWA	400 ppm TWA	400 ppm TWAEV; 1440 mg/m ³ TWAEV	200 mg/m ³ TWA	Not established

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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 ³ 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 ³ TWA	400 ppm TWA; 980 mg/m ³ TWA
	STELs	Not established	Not established	500 ppm STEL; 1225 mg/m ³ STEL	Not established
	Ceilings	400 ppm Peak; 1000 mg/m ³ Peak	Not established	Not established	Not established
	MAKs	200 ppm TWA MAK; 500 mg/m ³ TWA MAK	Not established	Not established	Not established
Toluene (108-88-3)	Ceilings	200 ppm Peak; 760 mg/m ³ Peak	Not established	Not established	300 ppm Ceiling
	TWAs	Not established	50 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 190 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)	100 ppm TWA; 375 mg/m ³ TWA	200 ppm TWA
	STELs	Not established	Not established	150 ppm STEL; 560 mg/m ³ STEL	Not established
	MAKs	50 ppm TWA MAK; 190 mg/m ³ 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 ³ 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 ³ TWA	400 ppm TWA; 1400 mg/m ³ TWA
	Ceilings	800 ppm Peak; 3000 mg/m ³ Peak	Not established	Not established	Not established
	MAKs	400 ppm TWA MAK; 1500 mg/m ³ 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)

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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 : Adequate ventilation systems as needed to control concentrations of airborne contaminants
Measures/Controls : 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		

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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 alkalis.

10.6 Hazardous decomposition products

Thermal oxidative decomposition of can produce CO, CO₂, Oxides of Nitrogen.

SECTION 11 - Toxicological Information

11.1 Information on toxicological effects

Component Name	CAS	Data
Acetic acid ethyl ester (60% - 100%)	141-78-6	Acute Toxicity: orl-rat LD50:5620 mg/kg; ihl-rat LC50:1600 ppm/8H; Irritation: eye-hmn 400 ppm
Toluene (1% - 5%)	108-88-3	Acute Toxicity: orl-rat LD50:636 mg/kg; ihl-rat LC50:49 gm/m ³ /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)
Isopropyl alcohol (0.1% - 1%)	67-63-0	Acute Toxicity: orl-rat LD50:5045 mg/kg; ihl-rat LC50:16000 ppm/8H; skn-rbt LD50:12800 mg/kg

GHS Properties	Classification
Acute toxicity	EU/CLP •Classification criteria not met OSHA HCS 2012 •Acute Toxicity 4 (Inhalation) - ATE Mix = 15.09 mg/l via inhalation with 1.35-1.8% Unknowns
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 •Classification criteria not met OSHA HCS 2012 •Classification criteria not met
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	EU/CLP •Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects OSHA HCS 2012 •Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects;Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met
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

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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.

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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

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AUSTRALIA

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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

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CANADA

Labor

Canada - WHMIS - Classifications of Substances			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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

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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations			
Component	CAS		
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 - Safety Phrases			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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

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Environment

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs			
Component	CAS		
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			
Component	CAS		
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 313 - Emission Reporting			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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

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UNITED STATES - CALIFORNIA

Environment

U.S. - California - Proposition 65 - Carcinogens List			
Component	CAS		
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			
Component	CAS		
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)			
Component	CAS		
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 Qg/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			
Component	CAS		
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			
Component	CAS		
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

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UNITED STATES - PENNSYLVANIA

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List			
Component	CAS		
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			
Component	CAS		
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			
Component	CAS		
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 : 22/April/2013
Preparation Date : 22/April/2013
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Key to abbreviations

NDA = No data available