Safety Data Sheet Firestone Building Products Company

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

1.1 Product identifier

Product Name • **SA-LVOC Primer**

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 • Firestone Building Products Company
200 4th Avenue S
Nashville, TN 37201-2208
United States

firestonemsds@bfdp.com

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: Regulation (EC) No 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: Respiratory Tract Irritation - H335
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
H335 - May cause respiratory irritation
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.
P321 - Specific treatment, see supplemental first aid information.
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
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P235 - 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 - 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 material 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
Aspiration 1
Skin Irritation 2
Eye Irritation 2
Acute Toxicity Inhalation 4
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements
- Highly flammable liquid and vapour
May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
Harmful if inhaled
May cause respiratory irritation
May cause drowsiness or dizziness

Precautionary statements

Prevention
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Keep container tightly closed.
Ground and/or bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing mist/vapours/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Response
- In case of fire: Use appropriate media for extinction.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Specific treatment, see supplemental first aid information.
Take off contaminated clothing and wash before reuse.
If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.

Storage/Disposal
- Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information
- 40 percent of this product consists of an ingredient of unknown toxicity.

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
Toxic - D1B
Other Toxic Effects - D2B

2.2 Label elements

WHMIS

- 

WHMIS

- Flammable Liquids - B2
  Toxic - D1B
  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).

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**
Acetic acid, methyl ester	**CAS:**79-20-9 **EC Number:**201-185-2	15% TO 40%	Ingestion/Oral-Rat LD50 • >5 g/kg Skin-Rabbit LD50 • >5 g/kg	**EU DSD/DPD:** EU CLP, Annex VI, Table 3.2: F, R11; Xi, R36; R66; R67 **EU CLP:** Annex VI: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; EUH006 **OSHA HCS 2012:** Flam. Liq. 2; Eye Irrit. 2; Skin Irrit. 2; STOT SE 3: Resp. Irrit. & Narc.	NDA
Acetic acid, tert-butyl ester	**CAS:**540-88-5 **EC Number:**208-760-7	10% TO 30%	Inhalation-Rat LC50 • >2230 mg/m³ 4 Hour(s) Skin-Rabbit LD50 • >2 g/kg Ingestion/Oral-Rat LD50 • 4500 mg/kg	**EU DSD/DPD:** EU CLP, Annex VI, Table 3.2: F, R11; R66 **EU CLP:** Annex VI: Flam. Liq. 2, H225; EUH066 **OSHA HCS 2012:** Flam. Liq. 2; Eye Irrit. 2B; Acute Tox. 3 (Inhl); STOT RE 3: Resp. Irrit.	NDA

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. If signs/symptoms continue, get medical attention.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.

Eye

- 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.

Ingestion

- Rinse mouth. Drink 1 - 2 glasses of water. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

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

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

Unsuitable Extinguishing Media

- Do not use a direct stream of water.

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.
  The product may ignite on contact with strong oxidizing agents, strong acids and strong bases.

Hazardous Combustion Products

- No data available

5.3 Advice for firefighters

- Move containers from fire area if you can do it without risk.

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. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist/vapours/spray. Avoid contact with skin, eyes, and clothing. 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. Do not eat, drink or smoke when using this product. After handling wash hands thoroughly. Use only in well-ventilated areas.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Keep away from incompatible materials. Inspect all containers to make sure they are properly labeled.

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**	**Belgium**	**Canada Alberta**	**Canada British Columbia**	**Canada Manitoba**
Acetic acid, tert-butyl ester (540-88-5)	TWAs	200 ppm TWA	200 ppm TWA; 964 mg/m3 TWA	200 ppm TWA; 950 mg/m3 TWA	200 ppm TWA	200 ppm TWA
Acetic acid, methyl ester (79-20-9)	STELs	250 ppm STEL	250 ppm STEL; 768 mg/m3 STEL	250 ppm STEL; 757 mg/m3 STEL	250 ppm STEL	250 ppm STEL
	TWAs	200 ppm TWA	200 ppm TWA; 615 mg/m3 TWA	200 ppm TWA; 606 mg/m3 TWA	200 ppm TWA	200 ppm TWA

Exposure Limits/Guidelines (Con't.)						
	Result	**Canada New Brunswick**	**Canada Northwest Territories**	**Canada Nova Scotia**	**Canada Nunavut**	**Canada Ontario**
Acetic acid, tert-butyl ester (540-88-5)	TWAs	200 ppm TWA; 950 mg/m3 TWA	200 ppm TWA; 950 mg/m3 TWA	200 ppm TWA	200 ppm TWA; 950 mg/m3 TWA	200 ppm TWA
	STELs	Not established	250 ppm STEL; 1187 mg/m3 STEL	Not established	250 ppm STEL; 1187 mg/m3 STEL	Not established
Acetic acid, methyl ester (79-20-9)	STELs	250 ppm STEL; 757 mg/m3 STEL	250 ppm STEL; 760 mg/m3 STEL	250 ppm STEL	250 ppm STEL; 760 mg/m3 STEL	250 ppm STEL
	TWAs	200 ppm TWA; 606 mg/m3 TWA	200 ppm TWA; 605 mg/m3 TWA	200 ppm TWA	200 ppm TWA; 605 mg/m3 TWA	200 ppm TWA

Exposure Limits/Guidelines (Con't.)						
	Result	**Canada Quebec**	**Canada Saskatchewan**	**Canada Yukon**	**Denmark**	**Germany DFG**
	TWAs	200 ppm TWAEV; 950 mg/m3 TWAEV	200 ppm TWA	200 ppm TWA; 950 mg/m3 TWA	150 ppm TWA; 710 mg/m3 TWA	Not established

Acetic acid, tert-butyl ester (540-88-5)	STELs	Not established	Not established	250 ppm STEL; 1180 mg/m3 STEL	Not established	Not established
	Ceilings	Not established	Not established	Not established	Not established	80 ppm Peak; 384 mg/m3 Peak
	MAKs	Not established	Not established	Not established	Not established	20 ppm TWA MAK; 96 mg/m3 TWA MAK
Acetic acid, methyl ester (79-20-9)	TWAs	200 ppm TWAEV; 606 mg/m3 TWAEV	200 ppm TWA	200 ppm TWA; 610 mg/m3 TWA	150 ppm TWA; 455 mg/m3 TWA	Not established
	STELs	250 ppm STEV; 757 mg/m3 STEV	Not established	250 ppm STEL; 760 mg/m3 STEL	Not established	Not established
	Ceilings	Not established	Not established	Not established	Not established	400 ppm Peak; 1240 mg/m3 Peak
	MAKs	Not established	Not established	Not established	Not established	100 ppm TWA MAK; 310 mg/m3 TWA MAK

Exposure Limits/Guidelines (Con't.)

	Result	Germany TRGS	NIOSH	OSHA
Acetic acid, tert-butyl ester (540-88-5)	TWAs	42 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); 200 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	200 ppm TWA; 950 mg/m3 TWA	200 ppm TWA; 950 mg/m3 TWA
Acetic acid, methyl ester (79-20-9)	TWAs	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 4); 610 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)	200 ppm TWA; 610 mg/m3 TWA	200 ppm TWA; 610 mg/m3 TWA
	STELs	Not established	250 ppm STEL; 760 mg/m3 STEL	Not established

Exposure Control Notations

Germany DFG

- Acetic acid, methyl ester (79-20-9): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- Acetic acid, tert-butyl ester (540-88-5): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

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

- Wear appropriate eye/face protection for the job/activity.

Skin/Body	• Wear appropriate gloves for the job/activity.
Environmental Exposure Controls	• In case of spills, keep product clear of sewers, waterways or land areas. Dispose of waste product in accordance with national and local laws and regulations.

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 Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Red liquid with a solvent-like odor similar to camphor odor.
Color	Red	Odor	Solvent-like
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 0.94 Water=1	Water Solubility	Insoluble
Viscosity	400 Centipoise (cPs, cP) or mPas	Explosive Properties	Not explosive.
Oxidizing Properties:	Not an oxidizer.		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	< 1 Air=1
Evaporation Rate	Data lacking		
Flammability			
Flash Point	-10 °C(14 °F) (Methyl acetate)	UEL	Data lacking
LEL	Data lacking	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

- Strong acids, strong bases, strong oxidizing agents, and potassium tert-butoxide.

10.6 Hazardous decomposition products

- Acetic acid, tertbutanol and methanol. During a fire, irritating/toxic gases, such as carbon monoxide, carbon dioxide and other toxic may be formed, depending on fire conditions.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Acetic acid, methyl ester (15% TO 40%)	79-20-9	**Acute Toxicity:** Ingestion/Oral-Rabbit LD50 • 3705 mg/kg; Skin-Rabbit LD50 • >5 g/kg; **Irritation:** Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation
Acetic acid, tert-butyl ester (10% TO 30%)	540-88-5	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 4100 mg/kg; *Behavioral*:**Altered sleep time (including change in righting reflex)**; *Behavioral*:**Ataxia**; *Lungs, Thorax, or Respiration*:**Dyspnea**; Inhalation-Rat LC50 • >2230 mg/m³ 4 Hour(s); Skin-Rabbit LD50 • >2 g/kg; *Gastrointestinal*:**Hypermotility, diarrhea**; *Kidney, Ureter, and Bladder*:**Other changes**; **Irritation:** Eye-Rabbit • 100 µL • Mild irritation; Skin-Rabbit • 500 µL 24 Hour(s) • Mild irritation

GHS Properties	Classification
Acute toxicity	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Acute Toxicity - Inhalation 4 - ATEmix (inhl) = 4.46mg/L
Skin corrosion/Irritation	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Skin Irritation 2
Serious eye damage/Irritation	**EU/CLP** • Eye Irritation 2 **OSHA HCS 2012** • Eye Irritation 2
Skin sensitization	**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
Aspiration Hazard	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Aspiration 1
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
Toxicity for Reproduction	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met
STOT-SE	**EU/CLP** • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation **OSHA HCS 2012** • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
STOT-RE	**EU/CLP** • Classification criteria not met **OSHA HCS 2012** • Classification criteria not met

Route(s) of entry/exposure

- Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

Acute (Immediate)
- Harmful if inhaled. 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)
- Repeated exposure may cause skin dryness or cracking.

Eye

Acute (Immediate)
- Causes serious eye irritation.

Chronic (Delayed)
- No data available.

Ingestion

Acute (Immediate)
- Material may be aspirated into the lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

Chronic (Delayed)
- No data available.

Key to abbreviations

LC = Lethal Concentration
LD = Lethal Dose
MLD = Mild
MOD = Moderate
TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

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	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 and the IBC Code
- Not relevant.

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, methyl ester	79-20-9	Yes	Yes	Yes
Acetic acid, tert-butyl ester	540-88-5	Yes	Yes	Yes

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**EU EINECS**	**EU ELNICS**	**TSCA**
Acetic acid, methyl ester	79-20-9	Yes	No	Yes	No	Yes
Acetic acid, tert-butyl ester	540-88-5	Yes	No	Yes	No	Yes

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Bulgaria

Environment

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour

• Acetic acid, methyl ester	79-20-9	0.07 mg/m3 MAHCL
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

• Acetic acid, methyl ester	79-20-9	0.07 - 6 mg/m3 MAHCL
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Acetic acid, methyl ester	79-20-9	B2, D2B
• Acetic acid, tert-butyl ester	540-88-5	B2

Canada - WHMIS - Ingredient Disclosure List

• Acetic acid, methyl ester	79-20-9	1 %
• Acetic acid, tert-butyl ester	540-88-5	1 %

Environment

Canada - 2004 NPRI (National Pollutant Release Inventory)

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Canada - 2005 NPRI (National Pollutant Release Inventory)

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Canada - CEPA - Priority Substances List

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Canada - DWQ (Drinking Water Quality) - IMACs

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Other

Canada - Accelerated Reduction/Elimination of Toxics (ARET)

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Canada New Brunswick

Environment

Canada - New Brunswick - Ozone Depleting Substances - Schedule A

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Canada - New Brunswick - Ozone Depleting Substances - Schedule B

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

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
• Acetic acid, tert-butyl ester	540-88-5	F; R11 R66

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	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
• Acetic acid, tert-butyl ester	540-88-5	F R:11-66 S:(2)-16-23-25-29-33

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	C

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

• Acetic acid, methyl ester	79-20-9	S:(2)-16-26-29-33
• Acetic acid, tert-butyl ester	540-88-5	S:(2)-16-23-25-29-33

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Environment

Germany - TA Luft - Types and Classes

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed
Germany - TA Luft - Emission Limits for Fibers		
• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Dusts		
• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Gases		
• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed
Germany - TA Luft - Emission Limits for Organic Substances		
• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
• Acetic acid, methyl ester	79-20-9	ID Number 146, hazard class 1 - low hazard to waters
• Acetic acid, tert-butyl ester	540-88-5	ID Number 43, hazard class 1 - low hazard to waters
Germany - Water Classification (VwVwS) - Annex 3		
• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals		
• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed
U.S. - OSHA - Specifically Regulated Chemicals		
• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	5000 lb final RQ (listed under Butyl acetate); 2270 kg final RQ (listed under Butyl acetate)
U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities		
• Acetic acid, methyl ester	79-20-9	Not Listed

• Acetic acid, tert-butyl ester	540-88-5	Not Listed

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

United States - California

Environment

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

United States - Pennsylvania

Labor

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	

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

• Acetic acid, methyl ester	79-20-9	Not Listed
• Acetic acid, tert-butyl ester	540-88-5	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Revision Date	• 28/February/2018
Preparation Date	• 02/January/2014
Other Information	• Changes to this revision: Updated mailing address.
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Key to abbreviations

NDA = No data available