# Safety Data Sheet

## 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** • Holcim Solutions and Products US, LLC
26 Century Boulevard, Suite 205, Nashville, Tennessee 37214

holcimelevate.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.

## 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 - H225
  Aspiration 1 - H304
  Skin Irritation 2 - H315
  Eye Irritation 2 - 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

## 2.2 Label elements

**OSHA HCS 2012**

**DANGER**

**Hazard statements**

- Highly flammable liquid and vapour - H225
- May be fatal if swallowed and enters airways - H304
- Causes skin irritation - H315
- Causes serious eye irritation - H319
- Harmful if inhaled - H332
- May cause respiratory irritation - H335
- May cause drowsiness or dizziness - H336

**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
- Avoid breathing mist/vapours/spray. - P261
- Wash thoroughly after handling. - P264
- Use only outdoors or in a well-ventilated area. - P271
- Wear protective gloves/protective clothing/eye protection/face protection. - P280

**Response**

- In case of fire: Use appropriate media for extinction. - P370+P378
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
- Call a POISON CENTER or doctor/physician if you feel unwell. - P312
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353
- Specific treatment, see supplemental first aid information. - P321
- Take off contaminated clothing and wash before reuse. - P362
- If skin irritation occurs: Get medical advice/attention. - P332+P313
- 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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician. - P301+P310
- Do NOT induce vomiting. - P331

**Storage/Disposal**

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

**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.

## 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<br>Skin-Rabbit LD50 • >5 g/kg | **EU DSD/DPD:** Annex I: F; R11 Xi; R36 R66 R67 **EU CLP:** Annex VI: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: 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)<br>Skin-Rabbit LD50 • >2 g/kg<br>Ingestion/Oral-Rat LD50 • 4500 mg/kg | **EU DSD/DPD:** Annex I: 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) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

## 8.2 Exposure controls

**Engineering**

- Good general ventilation should be used. Ventilation rates should be matched to

**Measures/Controls**

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 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 | 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

| Component Name | CAS | Data |
|---|---|---|
| Acetic acid, methyl ester (15% TO 40%) | 79-20-9 | **Acute Toxicity:** orl-rbt LD50:3705 mg/kg; skn-rbt LD50:>5 gm/kg;<br>**Irritation:** eye-rbt 100 mg/24H MOD; skn-rbt 20 mg/24H MOD |
| Acetic acid, tert-butyl ester (10% TO 30%) | 540-88-5 | **Acute Toxicity:** orl-rat LD50:4100 mg/kg; ihl-rat LC50:>2230 mg/m3/4H; skn-rbt LD50:>2 gm/kg;<br>**Irritation:** eye-rbt 100 uL MLD; skn-rbt 500 uL/24H MLD |

| GHS Properties | Classification |
|---|---|
| **Acute toxicity** | **EU/CLP** • Classification criteria not met<br>**OSHA HCS 2012** • Acute Toxicity - Inhalation 4 - ATEmix (inhl) = 4.46mg/L |
| **Aspiration Hazard** | **EU/CLP** • Classification criteria not met<br>**OSHA HCS 2012** • Aspiration 1 |
| **Carcinogenicity** | **EU/CLP** • Classification criteria not met<br>**OSHA HCS 2012** • Classification criteria not met |
| **Germ Cell Mutagenicity** | **EU/CLP** • Classification criteria not met<br>**OSHA HCS 2012** • Classification criteria not met |
| **Skin corrosion/Irritation** | **EU/CLP** • Classification criteria not met<br>**OSHA HCS 2012** • Skin Irritation 2 |
| **Skin sensitization** | **EU/CLP** • Classification criteria not met<br>**OSHA HCS 2012** • Classification criteria not met |
| **STOT-RE** | **EU/CLP** • Classification criteria not met<br>**OSHA HCS 2012** • Classification criteria not met |
| **STOT-SE** | **EU/CLP** • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation<br><br>**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<br>**OSHA HCS 2012** • Classification criteria not met |

| | |
|---|---|
| **Respiratory sensitization** | **EU/CLP** • Classification criteria not met<br>**OSHA HCS 2012** • Classification criteria not met |
| **Serious eye damage/Irritation** | **EU/CLP** • Eye Irritation 2<br>**OSHA HCS 2012** • Eye Irritation 2 |

**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 73/78 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

**Last Revision Date** 02/January/2014

**Preparation Date** April 10, 2024

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**Key to abbreviations**

NDA = No data available