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

1.1 Product identifier

Product Name: Ethylene Dichloride
Synonyms: 1,2-Dichloroethane; EDC; Ethylene Chloride
CAS Number: 107-06-2
EC Number: 203-458-1
Molecular Formula: C2H4Cl2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s): Chemical manufacturing intermediate, chlorinated solvent

1.3 Details of the supplier of the safety data sheet

Manufacturer: Westlake Vinyls, Inc.
P.O. Box 712
2468 Industrial Parkway Calvert City, KY 42029
United States
www.westlake.com

Telephone (General): 270-395-4151

1.4 Emergency telephone number

Manufacturer: (800) 424-9300 - Chemtrec - Transportation emergency

Section 2: Hazards Identification

EU/EEC
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
- Acute Toxicity Oral 4 - H302
- Skin Irritation 2 - H315
- Eye Irritation 2 - H319
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
- Carcinogenicity 1B - H350

DSD/DPD
- Highly Flammable (F)
- Harmful (Xn)
- Irritant (Xi)
Carcinogenic Substances - Category 2
R11, R22, R36/37/38, R45

2.2 Label Elements

DANGER

Hazard statements • H225 - Highly flammable liquid and vapour
H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H350 - May cause cancer.

Precautionary statements

Prevention • P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
P233 - Keep container tightly closed.
P240 - Ground and/or bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe mist/vapours/spray.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves and eye/face protection , .
P281 - Use personal protective equipment as required.

Response • P370+P378 - In case of fire: Use appropriate media for extinction.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
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.
P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P308+P313 - IF exposed or concerned: Get medical advice/attention.

Storage/Disposal • P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P235 - Keep cool.
P405 - Store locked up.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
DSD/DPD

**Risk phrases**
- R11 - Highly flammable.
- R22 - Harmful if swallowed.
- R36/37/38 - Irritating to eyes, respiratory system and skin.
- R45 - May cause cancer.

**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.
- S53 - Avoid exposure - obtain special instructions before use.

### 2.3 Other Hazards

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

**DSD/DPD**
- This product is considered dangerous according to the European Directive 67/548/EEC.

---

**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
  - Acute Toxicity Oral 4 - H302
  - Skin Irritation 2 - H315
  - Eye Irritation 2 - H319
  - Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
  - Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
  - Carcinogenicity 2 - H351
  - Specific Target Organ Toxicity Repeated Exposure 1 - H372

### 2.2 Label elements

**OSHA HCS 2012**

**DANGER**

**Hazard statements**
- Highly flammable liquid and vapour - H225
- Harmful if swallowed - H302
- Causes skin irritation - H315
- Causes serious eye irritation - H319
- May cause respiratory irritation - H335
- May cause drowsiness or dizziness - H336
- Suspected of causing cancer. - H351
- Causes damage to organs - Liver/Kidneys through prolonged or repeated exposure via Ingestion - H372

**Precautionary statements**

**Prevention**
- Obtain special instructions before use. - P201
- Do not handle until all safety precautions have been read and understood. - P202
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210
- Keep container tightly closed. - P233
- Ground and/or bond container and receiving equipment. - P240
Use explosion-proof electrical/ventilating/lighting/equipment. - P241
Use only non-sparking tools. - P242
Take precautionary measures against static discharge. - P243
Do not breathe mist/vapours/spray. - P260
Wash thoroughly after handling. - P264
Do not eat, drink or smoke when using this product. - P270
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
  If skin irritation occurs: Get medical advice/attention. - P332+P313
  Specific treatment, see supplemental first aid information. - P321
  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 if you feel unwell. - P301+P312
  Rinse mouth. - P330
  IF exposed or concerned: Get medical advice/attention. - P308+P313
  Get medical advice/attention if you feel unwell. - P314

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

Canada
According to WHMIS

2.1 Classification of the substance or mixture

WHMIS
- Flammable Liquids - B2
  Very Toxic - D1A
  Other Toxic Effects - D2A

2.2 Label elements

WHMIS

- Flammable Liquids - B2
  Very Toxic - D1A
  Other Toxic Effects - D2A

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,2- dichloro-</td>
<td>CAS:107-06-2 EC Number:203-458-1 EU Index:602-012-00-7</td>
<td>100%</td>
<td>Skin-Rabbit LD50 • 2800 mg/kg Inhalation-Rat LC50 • 5100 mg/m³ 6 Hour(s) Ingestion/Oral-Rat LD50 • 500 mg/kg</td>
<td>EU DSD/DPD: Annex VI, Table 3.2: F R11 Xn R22 Xi R36/37/38 Carc.Cat.2 R45 EU CLP: Annex VI, Table 3.1: Flam. Liq. 2, H225; Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2, H315; Carc. 1B, H350 OSHA HCS 2012: Flam. Liq. 2; STOT RE 1 (Kidneys, Liver (Oral)); Skin Irrit. 2; Eye Irrit. 2; Carc. 2; Acute Tox 4 (oral); STOT SE 3: Narc. &amp; Resp. Irrit.</td>
<td>NDA</td>
</tr>
</tbody>
</table>

3.2 Mixtures

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

Section 4 - First Aid Measures

4.1 Description of first aid measures

**Inhalation**
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention.

**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. Wash the contaminated area of body with soap and fresh water. Remove and isolate contaminated clothing. If irritation develops and persists, get medical attention.

**Eye**
- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.

**Ingestion**
- Induce vomiting (only in conscious persons) Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

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

Section 5 - Firefighting Measures

5.1 Extinguishing media

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

**Unsuitable Extinguishing Media**
- Water may be ineffective but water should be used to keep fire exposed containers cool.

5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards**
- Containers may explode when heated.
- Vapor explosion hazard indoors, outdoors or in sewers.
- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- 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.

Hazardous Combustion Products
- No data available

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 walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate personal protective equipment, avoid direct contact.

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

6.2 Environmental precautions
- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Stop leak if you can do it without risk.
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Use clean non-sparking tools to collect absorbed material.
A vapor suppressing foam may be used to reduce vapors.
All equipment used when handling the product must be grounded.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections
- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling
- Use only with adequate ventilation. Keep away from heat, sparks, and flame. All equipment used when handling the product must be grounded. Take precautionary measures against static charges. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.
7.2 Conditions for safe storage, including any incompatibilities

**Storage**
- Keep away from sources of ignition - No Smoking. Keep container/package tightly closed in a cool, well-ventilated place. Do not ship or store EDC in aluminum containers.

7.3 Specific end use(s)
- Refer to Section 1.2 - Relevant identified uses.

### Section 8 - Exposure Controls/Personal Protection

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ethane, 1,2-dichloro- (107-06-2)</strong></td>
<td>Ceilings</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>10 ppm TWA</td>
<td>1 ppm TWA; 4 mg/m3 TWA</td>
<td>50 ppm TWA</td>
</tr>
<tr>
<td>STELs</td>
<td>Not established</td>
<td>2 ppm STEL; 8 mg/m3 STEL</td>
<td>Not established</td>
</tr>
</tbody>
</table>

#### 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 only appropriately classified electrical equipment.

**Personal Protective Equipment**
- 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.
- Wear safety goggles.
- Wear appropriate gloves.
- Follow best practice for site management and disposal of waste.

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

---

### Section 9 - Physical and Chemical Properties

#### 9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>Clear, colorless liquid with a chloroform-like odor.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Form</strong></td>
<td>Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Colorless</td>
<td>Odor</td>
<td>Chloroform-like</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>Data lacking</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Properties</th>
<th>Boiling Point</th>
<th>Melting Point</th>
<th>pH</th>
<th>Data lacking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>83.4 °C(182.12 °F)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data lacking</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Decomposition Temperature</strong></th>
<th>Data lacking</th>
<th><strong>Specific Gravity/Relative Density</strong></th>
<th>Water Solubility</th>
<th>Slightly Soluble 0.1 to 1 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slightly Soluble</td>
<td>1.25 Water=1 @ 20 °C(68 °F)</td>
<td></td>
<td>Slightly Soluble 0.1 to 1 %</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Viscosity</strong></th>
<th>Data lacking</th>
<th><strong>Explosive Properties</strong></th>
<th>Data lacking</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Oxidizing Properties</strong></th>
<th>Data lacking</th>
<th></th>
<th>Data lacking</th>
</tr>
</thead>
</table>
Volatility

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>67 mmHg (torr) @ 20 C(68 F)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>3.4 Air=1</td>
</tr>
<tr>
<td>Volatiles (Vol.)</td>
<td>100 %</td>
</tr>
</tbody>
</table>

Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>13 C(55.4 F) TCC (Tagliabue Closed Cup)</td>
</tr>
<tr>
<td>UEL</td>
<td>16 %</td>
</tr>
<tr>
<td>LEL</td>
<td>6.2 %</td>
</tr>
<tr>
<td>Autoignition</td>
<td>413 C(775.4 F)</td>
</tr>
</tbody>
</table>

Environmental

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

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

- Heat, sparks, open flame.

10.5 Incompatible materials

- Avoid contact with pure oxygen. Reacts with alkalis, amines and strong oxidizing agents such as hydrogen peroxide, permanganates and perchlorates. Depending on the amount and specific materials involved, contact can result in intense heat, boiling, flame development, explosion or toxic gas generation (such as hydrogen chloride and vinyl chloride). Reacts with aluminum generating hydrogen gas.

10.6 Hazardous decomposition products

- Carbon monoxide, carbon dioxide, hydrogen chloride, phosgene, aromatic and aliphatic hydrocarbons.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,2-dichloro- (100%)</td>
</tr>
<tr>
<td>107-06-2</td>
</tr>
<tr>
<td><strong>Acute Toxicity:</strong> Ingestion/Oral-Rat LD50 • 500 mg/kg; Inhalation-Rat LC50 • 1000 ppm 7 Hour(s); Behavioral:Coma; Lungs, Thorax, or Respiration:Cyanosis; Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Body temperature decrease; Inhalation-Rat LC50 • 5100 mg/m² 6 Hour(s); Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 5 ppm 7 Hour(s) 78 Week(s)-Intermittent; Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Blood:Leukemia; Skin and Appendages:Other:Tumors</td>
</tr>
</tbody>
</table>

GHS Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP•Acute Toxicity - Oral 4</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012•Acute Toxicity - Oral 4</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP•Data lacking</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012•Data lacking</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP•Carcinogenicity 1B</td>
</tr>
<tr>
<td>Route(s) of entry/exposure</td>
<td>Potential Health Effects</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td><strong>Inhalation, Skin, Eye, Ingestion/Oral</strong></td>
<td><strong>Inhalation</strong></td>
</tr>
<tr>
<td><strong>Acute (Immediate)</strong></td>
<td>May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.</td>
</tr>
<tr>
<td><strong>Chronic (Delayed)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Skin</strong></td>
<td><strong>Acute (Immediate)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Chronic (Delayed)</strong></td>
</tr>
<tr>
<td><strong>Eye</strong></td>
<td><strong>Acute (Immediate)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Chronic (Delayed)</strong></td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td><strong>Acute (Immediate)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Chronic (Delayed)</strong></td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td><strong>Chronic (Delayed)</strong></td>
</tr>
<tr>
<td><strong>Carcinogenic Effects</strong></td>
<td>Repeated and prolonged exposure may cause cancer.</td>
</tr>
</tbody>
</table>

### Carcinogenic Effects

<table>
<thead>
<tr>
<th>CAS</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,2-dichloro-</td>
<td>107-06-2</td>
<td>Reasonably Anticipated to be Human Carcinogen</td>
</tr>
</tbody>
</table>
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
- PBT and vPvB assessment has not been carried out.

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

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT UN1184</td>
<td>Ethylene dichloride</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG UN1184</td>
<td>ETHYLENE DICHLORIDE</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG UN1184</td>
<td>ETHYLENE DICHLORIDE</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO UN1184</td>
<td>Ethylene Dichloride</td>
<td>3</td>
<td>II</td>
<td>NDA</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user
- None specified.

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

Section 15 - Regulatory Information

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

SARA Hazard Classifications
- Acute, Chronic, Fire
<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Australia AICS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>China</th>
<th>EU EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,2-dichloro-</td>
<td>107-06-2</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>EU ELNICS</th>
<th>Japan ENCS</th>
<th>Korea KECL</th>
<th>New Zealand</th>
<th>Philippines PICCS</th>
</tr>
</thead>
<tbody>
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<td>Yes</td>
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<td>Yes</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,2-dichloro-</td>
<td>107-06-2</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Canada

#### Labor
- **Canada - WHMIS - Classifications of Substances**
  - Ethane, 1,2-dichloro-
- **Canada - WHMIS - Ingredient Disclosure List**
  - Ethane, 1,2-dichloro-

#### Environment
- **Canada - 2004 NPRI (National Pollutant Release Inventory)**
  - Ethane, 1,2-dichloro-
- **Canada - 2005 NPRI (National Pollutant Release Inventory)**
  - Ethane, 1,2-dichloro-
- **Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting**
  - Ethane, 1,2-dichloro-
- **Canada - CEPA - Priority Substances List**
  - Ethane, 1,2-dichloro-
- **Canada - DWQ (Drinking Water Quality) - IMACs**
  - Ethane, 1,2-dichloro-

#### Other
- **Canada - Accelerated Reduction/Elimination of Toxics (ARET)**
  - Ethane, 1,2-dichloro-

### Canada New Brunswick

#### Environment
- **Canada - New Brunswick - Ozone Depleting Substances - Schedule A**
  - Ethane, 1,2-dichloro-
- **Canada - New Brunswick - Ozone Depleting Substances - Schedule B**
  - Ethane, 1,2-dichloro-

### Europe

#### Other
- **EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (2011/65/EU) (RoHS)**
  - Ethane, 1,2-dichloro-
- **EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/EEC) - Other Ingredients**
  - Ethane, 1,2-dichloro-

### Japan

#### Environment
- **Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances**
  - Ethane, 1,2-dichloro-
- **Japan - Pollutant Release Transfer Register (PRTR) - Class 2 Substances**
  - Ethane, 1,2-dichloro-
- **Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)**
  - Ethane, 1,2-dichloro-

### Other Agency Information

#### Other
- **CONEG - Model Toxics in Packaging Legislation**
  - Ethane, 1,2-dichloro-
United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
• Ethane, 1,2-dichloro-  
107-06-2

U.S. - CAA (Clean Air Act) - Class I Ozone Depletors
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

U.S. - CAA (Clean Air Act) - Class II Ozone Depletors
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
• Ethane, 1,2-dichloro-  
107-06-2 100 lb final RQ; 45.4 kg final RQ

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting
• Ethane, 1,2-dichloro-  
107-06-2 0.1 % de minimis concentration

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII
• Ethane, 1,2-dichloro-  
107-06-2 Included in waste streams: F024, F025, F039, K018, K019, K020, K029, K030, K096

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261
• Ethane, 1,2-dichloro-  
107-06-2 waste number U077

U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
• Ethane, 1,2-dichloro-  
107-06-2 Section 4, 0.1 % de minimus concentration

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List
• Ethane, 1,2-dichloro-  
107-06-2 Carcinogen, initial date 10/1/87

U.S. - California - Proposition 65 - Developmental Toxicity
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
• Ethane, 1,2-dichloro-  
107-06-2 10 µg/day NSRL

U.S. - California - Proposition 65 - Reproductive Toxicity - Female
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male
• Ethane, 1,2-dichloro-  
107-06-2 Not Listed

15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out.
Section 16 - Other Information

Last Revision Date  ● 01/April/2015
Preparation Date  ● 01/April/2015

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Key to abbreviations
NDA = No Data Available