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

1.1. Product identifier
   Product form : Mixture
   Product name : Chloroprene Standard
   Product code : AL0-101617

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

1.2.1. Relevant identified uses
   Main use category : Laboratory Use
   Industrial/Professional use spec : Industrial
                                For professional use only

1.2.2. Uses advised against
   No additional information available

1.3. Details of the supplier of the safety data sheet
   Phenova
   6390 Joyce Dr. Suite 100
   80403 Golden, CO - United States
   T 1-866-942-2978 - F 1-866-283-0269
   info@phenova.com - www.phenova.com

1.4. Emergency telephone number
   Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924
                      ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
   Classification according to Regulation (EC) No. 1272/2008 [CLP]
   Flam. Liq. 2                    H225
   Acute Tox. 3 (Oral)             H301
   Acute Tox. 3 (Dermal)           H311
   Acute Tox. 3 (Inhalation:dust,mist) H331
   Carc. 1B                       H350
   STOT SE 1                      H370

   Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
   Carc.Cat.2; R45
   F; R11
   T; R23/24/25
   T; R39/23/24/25
   Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects
   No additional information available

2.2. Label elements
   Labeling according to Regulation (EC) No. 1272/2008 [CLP]
   Hazard pictograms (CLP)
      GHS02  GHS06  GHS08

   Signal word (CLP) : Danger
   Hazardous ingredients : 2-chloro-1,3-butadiene, inhibited; methanol
   Hazard statements (CLP) : H225 - Highly flammable liquid and vapor
                                H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
Chloroprene Standard
Safety Data Sheet

H350 - May cause cancer
H370 - Causes damage to organs

Precautionary statements (CLP):
P233 - Keep container tightly closed
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
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/protective clothing/eye protection/face protection
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P308+P313 - IF exposed or concerned: Get medical advice/attention
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed

No labeling applicable

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC No. 1272/2008 [CLP])</th>
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</thead>
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<tr>
<td>methanol</td>
<td>(CAS No) 67-66-1</td>
<td>99.8</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td>(EC no) 200-659-6</td>
<td></td>
<td>Acute Tox. 3 (Oral), H301</td>
</tr>
<tr>
<td></td>
<td>(EC index no) 603-001-00-X</td>
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<td>Acute Tox. 3 (Dermal), H311</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 (Inhalation), H331</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 1, H370</td>
</tr>
<tr>
<td>2-chloro-1,3-butadiene, inhibited</td>
<td>(CAS No) 126-99-8</td>
<td>0.2</td>
<td>Flam. Liq. 2, H225</td>
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<tr>
<td></td>
<td>(EC no) 204-818-0</td>
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<td>Acute Tox. 3 (Oral), H301</td>
</tr>
<tr>
<td></td>
<td>(EC index no) 802-036-00-8</td>
<td></td>
<td>Acute Tox. 4 (Inhalation), H332</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>Eye Irrit. 2, H319</td>
</tr>
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<td></td>
<td></td>
<td>Carc. 1B, H350</td>
</tr>
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<td></td>
<td>STOT SE 3, H335</td>
</tr>
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<td>STOT RE 2, H373</td>
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<table>
<thead>
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<th>Specific concentration limits</th>
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<tr>
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<td>(CAS No) 67-66-1</td>
<td>(3 &lt;= C &lt; 10) STOT SE 2, H371</td>
</tr>
<tr>
<td></td>
<td>(EC no) 200-659-6</td>
<td>(C &gt;= 10) STOT SE 1, H370</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/injuries after skin contact: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.

Symptoms/injuries after ingestion: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
Chloroprene Standard
Safety Data Sheet

Unsuitable extinguishing media
Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Highly flammable liquid and vapor.
Explosion hazard: May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Take up in absorbent material. Collect spillage.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Additional hazards when processed: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures: Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
Storage conditions: Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.
Incompatible materials: Direct sunlight. Heat sources.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Exposure controls
Appropriate engineering controls: Either local exhaust or general room ventilation is usually required.
Hand protection: Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.
Eye protection: Chemical goggles or safety glasses. Safety glasses.
Skin and body protection: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state: Liquid
- Color: Colorless
- Odor: Characteristic
- pH: No data available
- Melting point: No data available
- Freezing point: No data available
- Boiling point: No data available
- Flash point: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Flammability (solid, gas): Highly flammable liquid and vapor
- Relative density: No data available
- Solubility: No data available
- Explosive properties: No data available
- Oxidizing properties: No data available
- Explosion limits: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:
- ATE CLP (oral): 100.120 mg/kg body weight
- ATE CLP (dermal): 300.601 mg/kg body weight
- ATE CLP (dust, mist): 0.501 mg/l/4h

2-chloro-1,3-butadiene, inhibited (126-99-8)
- LD50 oral rat: 251 mg/kg (Rat)
- LD50 dermal rabbit: 2200 mg/kg (Rabbit)
- LC50 inhalation rat (mg/l): 11.8 mg/l/4h (Rat)
- ATE CLP (oral): 251.000 mg/kg body weight
- ATE CLP (dermal): 2200.000 mg/kg body weight
- ATE CLP (gases): 4500.000 ppmV/4h
- ATE CLP (vapors): 11.800 mg/l/4h
- ATE CLP (dust, mist): 1.500 mg/l/4h

14/12/2016
EN (English US)
Chloroprene Standard
Safety Data Sheet

methanol (67-56-1)

| LD50 oral rat | > 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence) |
|LD50 dermal rabbit | 15800 mg/kg (Rabbit; Literature study) |
|LC50 inhalation rat (mg/l) | 85 mg/l/4h (Rat; Literature study) |
|LC50 inhalation rat (ppm) | 64000 ppm/4h (Rat; Literature study) |
|ATE CLP (oral) | 100.000 mg/kg body weight |
|ATE CLP (dermal) | 300.000 mg/kg body weight |
|ATE CLP (gases) | 700.000 ppmV/4h |
|ATE CLP (vapors) | 3.000 mg/l/4h |
|ATE CLP (dust, mist) | 0.500 mg/l/4h |

Skin corrosion/irritation: Not classified
Based on available data, the classification criteria are not met

Serious eye damage/irritation: Not classified
Based on available data, the classification criteria are not met

Respiratory or skin sensitization: Not classified
Based on available data, the classification criteria are not met

Germ cell mutagenicity: Not classified
Based on available data, the classification criteria are not met

Carcinogenicity: May cause cancer.
May cause cancer

Reproductive toxicity: Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure): Causes damage to organs.

Specific target organ toxicity (repeated exposure): Not classified
Based on available data, the classification criteria are not met

Aspiration hazard: Not classified
Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms: Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

SECTION 12: Ecological information

12.1. Toxicity

2-chloro-1,3-butadiene, inhibited (126-99-8)

| LC50 fish 1 | 245 mg/l (LC50; 96 h; Lepomis macrochirus) |
| EC50 Daphnia 1 | 348 mg/l (EC50; 24 h) |
| Threshold limit algae 1 | 380 mg/l (EC50; 168 h) |

methanol (67-56-1)

| LC50 fish 1 | 15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value) |
|EC50 Daphnia 1 | > 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) |
|LC50 fish 2 | 10800 mg/l (LC50; 96 h; Salmo gairdneri) |

12.2. Persistence and degradability

Chloroprene Standard
Persistence and degradability: Not established.

2-chloro-1,3-butadiene, inhibited (126-99-8)

methanol (67-56-1)

Biochemical oxygen demand (BOD): 0.6 - 1.12 g O₂ /g substance
Chemical oxygen demand (COD): 1.42 g O₂ /g substance
ThOD: 1.5 g O₂ /g substance
BOD (% of ThOD): 0.8 (Literature study)

12.3. Bioaccumulative potential

Chloroprene Standard
Bioaccumulative potential: Not established.
# Chloroprene Standard
## Safety Data Sheet

### 2-chloro-1,3-butadiene, inhibited (126-99-8)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>0.57 - 2.2</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

### Methanol (67-56-1)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>&lt; 10 (BCF; 72 h; Leuciscus idus)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.77 (Experimental value; Other)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>&lt; 10 (BCF; 72 h; Leuciscus idus)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.77 (Experimental value; Other)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information: Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Additional information: Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials: Avoid release to the environment. Hazardous waste due to toxicity.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

| UN-No. (ADR) | 1992 |
| UN-No. (IATA) | 1992 |
| UN-No. (IMDG) | 1992 |
| UN-No. (ADN) | 1992 |

### 14.2. UN proper shipping name

<table>
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<tr>
<th>Property</th>
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<td>Proper Shipping Name (ADR)</td>
<td>FLAMMABLE LIQUID, TOXIC, N.O.S.</td>
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<tr>
<td>Proper Shipping Name (IATA)</td>
<td>Flammable liquid, toxic, n.o.s.</td>
</tr>
<tr>
<td>Proper Shipping Name (IMDG)</td>
<td>FLAMMABLE LIQUID, TOXIC, N.O.S.</td>
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<tr>
<td>Proper Shipping Name (ADN)</td>
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<tr>
<td>Transport document description (ADR)</td>
<td>UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), II, (D/E)</td>
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</tbody>
</table>

### 14.3. Packing group

| Class (ADR) | 3 |
| Classification code (ADR) | FT1 |
| Class (IATA) | 3 |
| Class (IMDG) | 3 |
| Class (ADN) | 3 |
| Classification code (ADN) | FT1 |
| Subsidiary risks (ADR) | 6.1 |
| Subsidiary risks (IMDG) | 6.1 |
| Hazard labels (ADR) | 3, 6.1 |

| Hazard labels (IATA) | 3, 6.1 |
## Chloroprene Standard

### Safety Data Sheet

<table>
<thead>
<tr>
<th>Hazard labels (IMDG)</th>
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| ![Hazard labels (IMDG)](image)

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</table>
| ![Hazard labels (ADN)](image)

### 14.4. Packing group

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<td>Packing group (IMDG)</td>
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<tr>
<td>Packing group (ADN)</td>
<td>II</td>
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</tbody>
</table>

### 14.5. Environmental hazards

| Other information | No supplementary information available. |

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

| Hazard identification number (Kemler No.) | 336 |
| Classification code (ADR) | FT1 |
| Orange plates | ![336 1992](image) |

| Special provision (ADR) | 274 |
| Transport category (ADR) | 2 |
| Tunnel restriction code (ADR) | D/E |
| Limited quantities (ADR) | 1L |
| Excepted quantities (ADR) | E2 |

#### 14.6.2. Transport by sea

| Special provision (IMDG) | 274 |
| Limited quantities (IMDG) | 1 L |
| Excepted quantities (IMDG) | E2 |
| Packing instructions (IMDG) | P001 |
| IBC packing instructions (IMDG) | IBC02 |
| Tank instructions (IMDG) | T7 |
| Tank special provisions (IMDG) | TP2, TP13 |
| EmS-No. (Fire) | F-E |
| EmS-No. (Spillage) | S-D |
| Stowage category (IMDG) | B |

#### 14.6.3. Air transport

| CAO packing instructions (IATA) | 364 |
| CAO max net quantity (IATA) | 60L |
| PCA packing instructions (IATA) | 352 |
| PCA Limited quantities (IATA) | Y341 |
| PCA limited quantity max net quantity (IATA) | 1L |
| PCA max net quantity (IATA) | 1L |
| PCA Excepted quantities (IATA) | E2 |
| Special provision (IATA) | A3 |
| ERG code (IATA) | 3HP |

#### 14.6.4. Inland waterway transport

| Special provision (ADN) | 274, 802 |
| Limited quantities (ADN) | 1 L |
| Excepted quantities (ADN) | E2 |
| Carriage permitted (ADN) | T |
Chloroprene Standard
Safety Data Sheet

Equipment required (ADN) : PP, EP, EX, TOX, A
Ventilation (ADN) : VE01, VE02
Number of blue cones/lights (ADN) : 2
Carriage prohibited (ADN) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
Contains no substances with Annex XVII restrictions
Contains no REACH candidate substance
Contains no REACH Annex XIV substances.

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information


Other information : None.

PHV SDS EU

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