Section 1. Identification

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

Product identifier: Preconditioner Unit_temperature -80C

Part No. (Chemical Kit): 192268100, 192264200, 190193504, 190193505, 190193507, X192268100, X192264200, X190193504, X190193505, X190193506, X190193507, X192268100-DEF, X192264200-DEF, X190193504-DEF, X190193505-DEF, X190193506-DEF, X190193507-DEF

Part No.: R1150 ETHYLENE Not available.
Refrigerant R1270 - PROPYLENE Not available.
R290 PROPANE Not available.

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

Analytical chemistry.

R1150 ETHYLENE 0.98 oz (in hermetic refrigeration system)
Refrigerant R1270 - PROPYLENE 0.83 oz (in hermetic refrigeration system)
R290 PROPANE 0.98 oz (in hermetic refrigeration system)

Supplier/Manufacturer: Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation): CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

Classification of the substance or mixture

R1150 ETHYLENE
H220 FLAMMABLE GASES - Category 1
H280 GASES UNDER PRESSURE - Compressed gas
H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

Refrigerant R1270 - PROPYLENE
H220 FLAMMABLE GASES - Category 1
H280 GASES UNDER PRESSURE - Compressed gas

R290 PROPANE
H220 FLAMMABLE GASES - Category 1
H280 GASES UNDER PRESSURE - Compressed gas

GHS label elements
Section 2. Hazard(s) identification

Hazard pictograms

R1150 ETHYLENE

Refrigerant R1270 - PROPYLENE

R290 PROPANE

Signal word

R1150 ETHYLENE DANGER
Refrigerant R1270 - PROPYLENE DANGER
R290 PROPANE DANGER

Hazard statements

R1150 ETHYLENE
H220 - Extremely flammable gas.
H280 - Contains gas under pressure; may explode if heated.
H336 - May cause drowsiness or dizziness.

Refrigerant R1270 - PROPYLENE
H280 - Contains gas under pressure; may explode if heated.

R290 PROPANE
H220 - Extremely flammable gas.
H280 - Contains gas under pressure; may explode if heated.

Precautionary statements

Prevention

R1150 ETHYLENE
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 - Use only outdoors or in a well-ventilated area.
P261 - Avoid breathing gas.

Refrigerant R1270 - PROPYLENE
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response

R1150 ETHYLENE
P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - Eliminate all ignition sources if safe to do so.

Refrigerant R1270 - PROPYLENE
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - Eliminate all ignition sources if safe to do so.
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - Eliminate all ignition sources if safe to do so.
P381 - Eliminate all ignition sources if safe to do so.

Storage

R1150 ETHYLENE
P405 - Store locked up.
P410 - Protect from sunlight.
P403 - Store in a well-ventilated place.

Refrigerant R1270 - PROPYLENE
P410 - Protect from sunlight.
P403 - Store in a well-ventilated place.
P410 - Protect from sunlight.
P403 - Store in a well-ventilated place.
Section 2. Hazard(s) identification

Disposal:  
- R1150 ETHYLENE: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Refrigerant R1270 - PROPYLENE: Not applicable.
- R290 PROPANE: Not applicable.

Supplemental label elements:  
- R1150 ETHYLENE: Not applicable.
- Refrigerant R1270 - PROPYLENE: Not applicable.
- R290 PROPANE: Not applicable.

Other hazards which do not result in classification:  
- R1150 ETHYLENE: Acts as a simple asphyxiant. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
- Refrigerant R1270 - PROPYLENE: Acts as a simple asphyxiant. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
- R290 PROPANE: None known.

Section 3. Composition and ingredient information

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

Substance/mixture:  
- R1150 ETHYLENE: Substance (encapsulated in article)
- Refrigerant R1270 - PROPYLENE: Substance (encapsulated in article)
- R290 PROPANE: Substance (encapsulated in article)

CAS number/other identifiers:

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>100</td>
<td>74-85-1</td>
</tr>
<tr>
<td>Ethylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>100</td>
<td>115-07-1</td>
</tr>
<tr>
<td>Propylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>100</td>
<td>74-98-6</td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures:

Eye contact:  
- R1150 ETHYLENE: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Refrigerant R1270 - PROPYLENE: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- R290 PROPANE: Immediately flush eyes with plenty of water,
Section 4. First aid measures

**Inhalation**: R1150 ETHYLENE

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Refrigerant R1270 - PROPYLENE**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**R290 PROPANE**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact**: R1150 ETHYLENE

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Refrigerant R1270 - PROPYLENE**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**R290 PROPANE**

Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly.
# Section 4. First aid measures

**Preconditioner Unit_temperature -80C**

### Ingestion

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>As this product is a gas, refer to the inhalation section.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>As this product is a gas, refer to the inhalation section.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>As this product is a gas, refer to the inhalation section.</td>
</tr>
</tbody>
</table>

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>Contact with rapidly expanding gas may cause burns or frostbite.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>Contact with rapidly expanding gas may cause burns or frostbite.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>Contact with rapidly expanding gas may cause burns or frostbite.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>Contact with rapidly expanding gas may cause burns or frostbite.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>Contact with rapidly expanding gas may cause burns or frostbite.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>Contact with rapidly expanding gas may cause burns or frostbite.</td>
</tr>
</tbody>
</table>

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<tr>
<th>Ingestion</th>
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</tr>
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<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>Can cause central nervous system (CNS) depression. As this product is a gas, refer to the inhalation section.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>As this product is a gas, refer to the inhalation section.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>As this product is a gas, refer to the inhalation section.</td>
</tr>
</tbody>
</table>

### Over-exposure signs/symptoms

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>No specific data.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>No specific data.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>No specific data.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>No specific data.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**Indication of immediate medical attention and special treatment needed, if necessary**
**Section 4. First aid measures**

**Notes to physician**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

**Protection of first-aiders**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</td>
</tr>
</tbody>
</table>

**Specific treatments**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Specific treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>

See toxicological information (Section 11)

**Section 5. Firefighting measures**

**Extinguishing media**

<table>
<thead>
<tr>
<th>Media</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable extinguishing</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
<tr>
<td>media</td>
<td></td>
</tr>
<tr>
<td>R1150 ETHYLENE</td>
<td></td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td></td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td></td>
</tr>
</tbody>
</table>

| Unsuitable extinguishing   | None known.                                                               |
| media                      |                                                                           |
| R1150 ETHYLENE             |                                                                           |
| Refrigerant R1270 - PROPYLENE |                                                                           |
| R290 PROPANE               |                                                                           |

**Specific hazards arising from the chemical**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Specific hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.</td>
</tr>
</tbody>
</table>
**Section 5. Firefighting measures**

**Hazardous thermal decomposition products**
- **R1150 ETHYLENE**
  - Decomposition products may include the following materials:
    - carbon dioxide
    - carbon monoxide

- **Refrigerant R1270 - PROPYLENE**
  - Decomposition products may include the following materials:
    - carbon dioxide
    - carbon monoxide

- **R290 PROPANE**
  - Decomposition products may include the following materials:
    - carbon dioxide
    - carbon monoxide

**Special protective actions for fire-fighters**
- **R1150 ETHYLENE**
  - Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

- **Refrigerant R1270 - PROPYLENE**
  - Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

- **R290 PROPANE**
  - Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

**Special protective equipment for fire-fighters**
- **R1150 ETHYLENE**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

- **Refrigerant R1270 - PROPYLENE**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

- **R290 PROPANE**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Section 5. Firefighting measures

<table>
<thead>
<tr>
<th>Hazchem code</th>
<th>R1150 ETHYLENE</th>
<th>2SE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant R1270 -</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROPYLENE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

- R1150 ETHYLENE: Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

- Refrigerant R1270 - PROPYLENE: Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

- R290 PROPANE: Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders**

- R1150 ETHYLENE: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Refrigerant R1270 - PROPYLENE: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- R290 PROPANE: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions**

- R1150 ETHYLENE: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

- Refrigerant R1270 - PROPYLENE: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Section 6. Accidental release measures

R290 PROPANE
Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up:
- R1150 ETHYLENE: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.
- Refrigerant R1270 - PROPYLENE: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.
- R290 PROPANE: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Section 7. Handling and storage

Precautions for safe handling

Protective measures:
- R1150 ETHYLENE: Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.
- Refrigerant R1270 - PROPYLENE: Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.
- R290 PROPANE: Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.
Section 7. Handling and storage

Advice on general occupational hygiene

**R1150 ETHYLENE**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Refrigerant R1270 - PROPYLENE**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**R290 PROPANE**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

**R1150 ETHYLENE**

Do not store above the following temperature: 52°C (125.6°F). Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use.

**Refrigerant R1270 - PROPYLENE**

Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use.

**R290 PROPANE**

Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use.

Section 8. Exposure controls and personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

Control parameters

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R1150 ETHYLENE</strong> Ethylene</td>
<td>Safe Work Australia (Australia, 1/2014). Oxygen Depletion [Asphyxiant].</td>
</tr>
<tr>
<td><strong>Refrigerant R1270 - PROPYLENE</strong> Propylene</td>
<td>Safe Work Australia (Australia, 1/2014). Oxygen Depletion [Asphyxiant].</td>
</tr>
<tr>
<td><strong>R290 PROPANE</strong> Propane</td>
<td>Safe Work Australia (Australia, 1/2014). Oxygen Depletion [Asphyxiant].</td>
</tr>
</tbody>
</table>
Section 8. Exposure controls and personal protection

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state: R1150 ETHYLENE - Gas.
Refrigerant R1270 - PROPYLENE - Gas.
R290 PROPANE - Gas.

Colour: R1150 ETHYLENE - Colourless.
Refrigerant R1270 - PROPYLENE - Colourless.
R290 PROPANE - Colourless.

Odour: R1150 ETHYLENE - Musty
Refrigerant R1270 - PROPYLENE - Faint odour.
R290 PROPANE - Faint odour.
**Section 9. Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>R1150 ETHYLENE</th>
<th>Refrigerant R1270 - PROPYLENE</th>
<th>R290 PROPANE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>-169.4°C (-272.9°F)</td>
<td>-185.25°C (-301.4°F)</td>
<td>-185.89°C (-302.6°F)</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>-103.68°C (-154.6°F)</td>
<td>-47°C (-52.6°F)</td>
<td>-41.79°C (-43.2°F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Closed cup: -136°C (-212.8°F)</td>
<td>Closed cup: -108°C (-162.4°F)</td>
<td>Closed cup: -104°C (-155.2°F)</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidizing materials.</td>
</tr>
<tr>
<td><strong>Lower and upper explosive limits</strong></td>
<td>Lower: 2.7%</td>
<td>Upper: 36%</td>
<td>Lower: 2.4%</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>&gt;101.3 kPa (&gt;760 mm Hg) [room temperature]</td>
<td>1043.6 kPa (7828 mm Hg) [room temperature]</td>
<td>840 kPa (6300.51 mm Hg) [room temperature]</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not available.</td>
<td>1.5 [Air = 1]</td>
<td>1.6 [Air = 1]</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>0.978 [Air = 1]</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Insoluble in the following materials: cold water and hot water.</td>
<td>Insoluble in the following materials: cold water and hot water.</td>
<td>Insoluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>1.09</td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 01/09/2017  
**Date of previous issue**: 31/01/2017  
**Version**: 1.1  
12/19
Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>R1150 ETHYLENE</th>
<th>Refrigerant R1270 - PROPYLENE</th>
<th>R290 PROPANE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>490°C (914°F)</td>
<td>455°C (851°F)</td>
<td>449.85°C (841.7°F)</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>&gt;650°C (&gt;1202°F)</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>R1150 ETHYLENE</th>
<th>Refrigerant R1270 - PROPYLENE</th>
<th>R290 PROPANE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reactivity</strong></td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td><strong>Chemical stability</strong></td>
<td>The product is stable.</td>
<td>The product is stable.</td>
<td>The product is stable.</td>
</tr>
<tr>
<td><strong>Possibility of hazardous reactions</strong></td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td><strong>Conditions to avoid</strong></td>
<td>Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow gas to accumulate in low or confined areas.</td>
<td>Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow gas to accumulate in low or confined areas.</td>
<td>Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow gas to accumulate in low or confined areas.</td>
</tr>
<tr>
<td><strong>Incompatible materials</strong></td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td><strong>Hazardous decomposition products</strong></td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity
Not available.

Irritation/Corrosion
Not available.

Sensitisation
Not available.

Mutagenicity
Not available.

Carcinogenicity
Not available.

Reproductive toxicity
Not available.

Teratogenicity
Not available.

Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
<tr>
<td>Ethylene</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on likely routes of exposure

R1150 ETHYLENE
Refrigerant R1270 - PROPYLENE
R290 PROPANE
Routes of entry anticipated: Inhalation.

Potential acute health effects

Eye contact
R1150 ETHYLENE
Refrigerant R1270 - PROPYLENE
R290 PROPANE
Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation
R1150 ETHYLENE
Refrigerant R1270 - PROPYLENE
R290 PROPANE
Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.

At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.

No known significant effects or critical hazards.
## Section 11. Toxicological information

### Skin contact
- **R1150 ETHYLENE:** Contact with rapidly expanding gas may cause burns or frostbite.
- **Refrigerant R1270 - PROPYLENE**
- **R290 PROPANE:** Contact with rapidly expanding gas may cause burns or frostbite.

### Ingestion
- **R1150 ETHYLENE:** Can cause central nervous system (CNS) depression. As this product is a gas, refer to the inhalation section.
- **Refrigerant R1270 - PROPYLENE:** As this product is a gas, refer to the inhalation section.
- **R290 PROPANE:** As this product is a gas, refer to the inhalation section.

### Symptoms related to the physical, chemical and toxicological characteristics

#### Eye contact
- **R1150 ETHYLENE:** No specific data.
- **Refrigerant R1270 - PROPYLENE:** No specific data.
- **R290 PROPANE:** No specific data.

#### Inhalation
- **R1150 ETHYLENE:** Adverse symptoms may include the following:
  - nausea or vomiting
  - headache
  - drowsiness/vertigo
  - dizziness/vertigo
  - unconsciousness
  - No specific data.
- **Refrigerant R1270 - PROPYLENE:** No specific data.
- **R290 PROPANE:** No specific data.

### Skin contact
- **R1150 ETHYLENE:** No specific data.
- **Refrigerant R1270 - PROPYLENE:** No specific data.
- **R290 PROPANE:** No specific data.

### Ingestion
- **R1150 ETHYLENE:** No specific data.
- **Refrigerant R1270 - PROPYLENE:** No specific data.
- **R290 PROPANE:** No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure
- **Potential immediate effects:** Not available.
- **Potential delayed effects:** Not available.

#### Long term exposure
- **Potential immediate effects:** Not available.
- **Potential delayed effects:** Not available.

#### Potential chronic health effects
Not available.

### General
- **R1150 ETHYLENE:** No known significant effects or critical hazards.
- **Refrigerant R1270 - PROPYLENE:** No known significant effects or critical hazards.
- **R290 PROPANE:** No known significant effects or critical hazards.

### Carcinogenicity
- **R1150 ETHYLENE:** No known significant effects or critical hazards.
- **Refrigerant R1270 - PROPYLENE:** No known significant effects or critical hazards.
- **R290 PROPANE:** No known significant effects or critical hazards.
Section 11. Toxicological information

**Mutagenicity**
- R1150 ETHYLENE: No known significant effects or critical hazards.
- Refrigerant R1270 - PROPYLENE: No known significant effects or critical hazards.
- R290 PROPANE: No known significant effects or critical hazards.

**Teratogenicity**
- R1150 ETHYLENE: No known significant effects or critical hazards.
- Refrigerant R1270 - PROPYLENE: No known significant effects or critical hazards.
- R290 PROPANE: No known significant effects or critical hazards.

**Developmental effects**
- R1150 ETHYLENE: No known significant effects or critical hazards.
- Refrigerant R1270 - PROPYLENE: No known significant effects or critical hazards.
- R290 PROPANE: No known significant effects or critical hazards.

**Fertility effects**
- R1150 ETHYLENE: No known significant effects or critical hazards.
- Refrigerant R1270 - PROPYLENE: No known significant effects or critical hazards.
- R290 PROPANE: No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**
- Not available.

Section 12. Ecological information

**Toxicity**
- Not available.

**Persistence and degradability**
- Not available.

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td></td>
<td></td>
<td>low</td>
</tr>
<tr>
<td>Ethylene</td>
<td>1.13</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>1.77</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Propylene</td>
<td></td>
<td></td>
<td>low</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>1.09</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**
- Soil/water partition coefficient (K<sub>oc</sub>): Not available.

**Other adverse effects**
- No known significant effects or critical hazards.
**Section 13. Disposal considerations**

**Disposal methods**
- The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport information**

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

<table>
<thead>
<tr>
<th>ADG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN3363</td>
<td>UN3363</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>DANGEROUS GOODS IN APPARATUS</td>
<td>DANGEROUS GOODS IN APPARATUS</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Packing group</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

**Additional information**

**ADG**
- Hazchem code 1Z
- Special provisions 301

**IMDG**
- Emergency schedules F-A, S-P
- Special provisions 301

**IATA**
- Special provisions A48, A107

**Special precautions for user**
- Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of Marpol and the IBC Code**
- Not available.

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**Version**: 1.1

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**Preconditioner Unit_temperature -80C**
Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons
Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances
No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

Montreal Protocol (Annexes A, B, C, E)
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

Inventory list

Australia: All components are listed or exempted.
Canada: All components are listed or exempted.
China: All components are listed or exempted.
Europe: All components are listed or exempted.
Japan: Japan inventory (ENCS): All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.
Malaysia: All components are listed or exempted.
New Zealand: All components are listed or exempted.
Philippines: All components are listed or exempted.
Republic of Korea: All components are listed or exempted.
Taiwan: All components are listed or exempted.
Thailand: Not determined.
Turkey: All components are listed or exempted.
United States: All components are listed or exempted.
Viet Nam: Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision: 01/09/2017
Date of previous issue: 31/01/2017.
Version: 1.1

Key to abbreviations
ADG = Australian Dangerous Goods
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
NOHSC = National Occupational Health and Safety Commission
## Section 16. Any other relevant information

**Procedure used to derive the classification**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1150 ETHYLENE</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Press. Gas (Comp.), H280</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>STOT SE 3, H336</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Refrigerant R1270 - PROPYLENE</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Flam. Gas 1, H220</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Press. Gas (Comp.), H280</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>R290 PROPANE</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Flam. Gas 1, H220</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Press. Gas (Comp.), H280</td>
<td>On basis of test data</td>
</tr>
</tbody>
</table>

**References**
- Not available.

---

**Notice to reader**

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