Safety Data Sheet

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

1.1 Product identifier

Product Name • NH9000/NL9000 Copper Clad Laminate
Synonyms • NH9000, NL9000

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

Relevant identified use(s) • Laminate for consumer and industrial electronics.
Use(s) advised against • Consumer goods in direct contact with food stuffs, potable water, or continuous skin contact

1.3 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>North America</th>
<th>Asia</th>
<th>Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AGC Nelco America Inc.</td>
<td>AGC Nelco Singapore PTE, Ltd</td>
<td>AGC Nelco Europe S.A.</td>
</tr>
<tr>
<td></td>
<td>1420 W. 12th Place Tempe, AZ 85281 United States</td>
<td>4 Gul Crescent Jurong, Singapore 629520</td>
<td>Route des Usines, BP25 65303, Lannemezan, Cedex, France</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.agc-nelco.com">www.agc-nelco.com</a> <a href="mailto:MSDSrequest@agcnelco.com">MSDSrequest@agcnelco.com</a></td>
<td><a href="http://www.parkelectro.com">www.parkelectro.com</a> <a href="mailto:MSDSrequest@parkelectro.com">MSDSrequest@parkelectro.com</a></td>
<td></td>
</tr>
</tbody>
</table>

1.4 Emergency telephone number

1-480-967-5600- (8AM - 5PM CST) M-F
1-800-424-9300 - CHEMTREC (US and Canada only)

65 6861 7117 - Asia
33-5-62-98-52-90- Europe (8AM-4PM M-F)

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 • Not Classified
DSD/DPD • Not Classified

2.2 Label Elements

CLP
Hazard statements • No label element(s) required.
DSD/DPD
Risk phrases • No label element(s) required.

2.3 Other Hazards

CLP • This material is exempt from CLP/REACH obligations as an article as specified in REACH (1907/2006) and related ECHA guidance.
DSD/DPD • Under European Directive 1999/45/EC these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use.

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 • Not Classified

2.2 Label elements

OSHA HCS 2012
Hazard statements • No label element(s) required.

2.3 Other hazards

OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), these product(s) are exempt and considered manufactured article(s) under stated normal use conditions.

Canada
According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS • Not classified

2.2 Label elements

WHMIS • No label element(s) required

2.3 Other hazards

WHMIS • Under Canadian regulations (Workplace Hazardous Materials Information System (WHMIS) – Hazardous
Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Composition</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTFE</td>
<td>CAS:9002-84-0</td>
<td>15% TO 60%</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>CAS:65997-17-3, EC Number:266-046-0</td>
<td>15% TO 60%</td>
</tr>
<tr>
<td>Copper</td>
<td>CAS:7440-50-8, EC Number:231-159-6</td>
<td>20% TO 70%</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>CAS:13463-67-7, EC Number:236-675-5</td>
<td>1% TO 10%</td>
</tr>
</tbody>
</table>

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation  
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move victim to fresh air. Administer oxygen if breathing is difficult. If signs/symptoms continue, get medical attention. Give artificial respiration if victim is not breathing.

Skin  
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. In case of contact with substance, flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. If irritation develops and persists, get medical attention.

Eye  
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion  
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician  
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

- Do not use straight streams.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Hazardous decomposition will occur at elevated temperatures

Hazardous Combustion Products

- Nitrous Oxides, Aldehydes, Carbon Monoxide, Various Acids, HF, Various Fluorocarbons

5.3 Advice for firefighters

- Structural firefighters’ protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- No special precautions are expected to be necessary if material is used under ordinary conditions and as recommended. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Keep unauthorized personnel away. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Avoid generating dust.
- Carefully shovel or sweep up spilled material and place in suitable container.

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

- Avoid contact with heat and ignition sources. Minimize dust generation and accumulation. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Avoid contact with skin, eyes or clothing. Avoid breathing fumes generated during processing. 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 heat, sparks and flame. Store in a well-ventilated place. Keep container tightly closed. Avoid generating dust. Store at 77ºF or below.
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>Result</th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>TWAs 1 fiber/cm³ TWA (respirable fibers: length &gt;5 µm, aspect ratio &gt;=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers) as Glass wool fiber</td>
</tr>
<tr>
<td>Copper as Copper compounds</td>
<td>TWAs 0.2 mg/m³ TWA (fume)</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs 10 mg/m³ TWA</td>
</tr>
</tbody>
</table>

**Exposure Limits/Guidelines (Con’t.)**

<table>
<thead>
<tr>
<th>Result</th>
<th>Canada Manitoba</th>
<th>Canada New Brunswick</th>
<th>Canada Northwest Territories</th>
<th>Canada Nova Scotia</th>
<th>Canada Nunavut</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>TWAs 1 fiber/cm³ TWA (respirable fibers: length &gt;5 µm, aspect ratio &gt;=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers) as Glass wool fiber</td>
<td>ACGIH 1 fiber/cm³ TWA (fibers &gt;5 µm with a diameter of &lt;3 µm, aspect ratio &gt;5:1) as Glass wool fiber</td>
<td>Canada New Brunswick 1 fiber/cm³ TWA (respirable fibers: length &gt;5 µm, aspect ratio &gt;=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers) as Glass wool fiber</td>
<td>Canada Northwest Territories 3 fiber/cm³ TWA (with a diameter of &lt;=3.5 µm and a length &gt;=10 µm; 5 mg/m³ TWA (total mass) as Glass wool fiber</td>
<td>Canada Nova Scotia 3 fiber/cm³ TWA (with a diameter of &lt;=3.5 µm and a length &gt;=10 µm; 5 mg/m³ TWA (total mass) as Glass wool fiber</td>
</tr>
</tbody>
</table>
### Copper as Copper compounds

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines (Con’t.)</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>Canada Saskatchewan</th>
<th>Canada Yukon</th>
<th>China</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glass, oxide, chemicals as Glass wool fiber</strong></td>
<td>1 fiber/cm³ TWA (respirable fibers: length &gt;5 µm, aspect ratio &gt;=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers) <strong>as Glass wool fiber</strong></td>
<td>1 fibre/cm³ TWAEV (respirable, listed under Fibres-Artificial Vitreous Mineral Fibres) <strong>as Glass wool fiber</strong></td>
<td>1 fiber/cm³ TWA (respirable fibers, listed under Synthetic vitreous fibers) <strong>as Glass wool fiber</strong></td>
<td>30 mppcf TWA (dust or fibrous); 10 mg/m³ TWA (dust or fibrous)</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Copper as Copper compounds</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>2.5 mg/m³ STEL (dust); 0.6 mg/m³ STEL (fume)</td>
</tr>
<tr>
<td><strong>TWAs</strong></td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (as Cu)</td>
<td>0.2 mg/m³ TWAEV (fume); 1 mg/m³ TWAEV (dust and mist)</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (fume)</td>
<td>1 mg/m³ TWA (dust); 0.2 mg/m³ TWA (fume)</td>
</tr>
<tr>
<td><strong>STELs</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Ceilings</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Titanium dioxide (13463-67-7)

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines (Con’t.)</th>
<th>Czech Republic</th>
<th>Denmark</th>
<th>France</th>
<th>Germany DFG</th>
<th>Germany TRGS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glass, oxide, chemicals as Glass wool fiber</strong></td>
<td>Not established</td>
<td>1 fiber/cm³ TWA <strong>as Glass wool fiber</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>STELs</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>2 mg/m³ STEL [VLCT] (dust, as Cu)</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>TWAs</strong></td>
<td>1 mg/m³ TWA (dust); 0.1 mg/m³ TWA (fume)</td>
<td>1.0 mg/m³ TWA (dust and powder); 0.1 mg/m³ TWA (fume)</td>
<td>0.2 mg/m³ TWA [VME] (fume); 1 mg/m³ TWA [VME] (dust as Cu)</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Ceilings</strong></td>
<td>2 mg/m³ Ceiling</td>
<td>Not established</td>
<td>Not established</td>
<td>0.02 mg/m³ Peak</td>
<td>Not established</td>
</tr>
<tr>
<td>MAKs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>0.01 mg/m³ TWA MAK (including inorganic copper compounds; respirable fraction)</td>
<td>Not established</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------</td>
<td>-----------------</td>
<td>-----------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs</td>
<td>Not established</td>
<td>6 mg/m³ TWA (as Ti)</td>
<td>10 mg/m³ TWA (VME) (as Ti)</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Cont’d.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Greece</th>
<th>India</th>
<th>Israel</th>
<th>Italy</th>
<th>Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>1 fiber/cm³ TWA (respirable fibers: length &gt; 5 µm, aspect ratio &gt;= 3:1, except asbestos minerals, listed under Synthetic vitreous fibers)</td>
<td>Not established</td>
</tr>
<tr>
<td>Copper as Copper compounds</td>
<td>TWAs</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust)</td>
<td>0.2 mg/m³ TWA (fume)</td>
<td>0.2 mg/m³ TWA (fume)</td>
<td>Not established</td>
</tr>
<tr>
<td>STELs</td>
<td>2 mg/m³ STEL (dust)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs</td>
<td>10 mg/m³ TWA (inhalable fraction); 5 mg/m³ TWA (respirable fraction)</td>
<td>Not established</td>
<td>10 mg/m³ TWA (listed under Turpentine and selected monoterpenes)</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Cont’d.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Korea</th>
<th>Malaysia</th>
<th>Netherlands</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>TWAs</td>
<td>10 mg/m³ TWA (Serial No. 007)</td>
<td>1 fiber/cm³ TWA (respirable fibers: length &gt; 5 µm, aspect ratio &gt;= 3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers)</td>
<td>3 fiber/cm³ TWA (fibers &lt;= 3.5 µm in diameter and &gt;= 10 µm in length); 5 mg/m³ TWA (total)</td>
<td>Not established</td>
</tr>
<tr>
<td>Copper as Copper compounds</td>
<td>TWAs</td>
<td>1 mg/m³ TWA (dust and mist, as Cu, Serial No. 010); 0.1 mg/m³ TWA (fume, as Cu, Serial No. 011)</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)</td>
<td>0.1 mg/m³ TWA (inhalable fraction)</td>
<td>1 mg/m³ TWA (dust and mist); 0.1 mg/m³ TWA (fume)</td>
</tr>
<tr>
<td>STELs</td>
<td>2 mg/m³ STEL (dust and mist, as Cu, Serial No. 010)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs</td>
<td>10 mg/m³ TWA (Serial No. 461)</td>
<td>10 mg/m³ TWA</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Cont’d.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Korea</th>
<th>Malaysia</th>
<th>Netherlands</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper as Copper compounds</td>
<td>TWAs</td>
<td>1 mg/m³ TWA (dust and mist, as Cu, Serial No. 010); 0.1 mg/m³ TWA (fume, as Cu, Serial No. 011)</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)</td>
<td>0.1 mg/m³ TWA (inhalable fraction)</td>
<td>1 mg/m³ TWA (dust and mist); 0.1 mg/m³ TWA (fume)</td>
</tr>
<tr>
<td>STELs</td>
<td>2 mg/m³ STEL (dust and mist, as Cu, Serial No. 010)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs</td>
<td>10 mg/m³ TWA (Serial No. 461)</td>
<td>10 mg/m³ TWA</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Result</th>
<th>Korea</th>
<th>Malaysia</th>
<th>Netherlands</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper as Copper compounds</td>
<td>TWAs</td>
<td>1 mg/m³ TWA (dust and mist, as Cu, Serial No. 010); 0.1 mg/m³ TWA (fume, as Cu, Serial No. 011)</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)</td>
<td>0.1 mg/m³ TWA (inhalable fraction)</td>
<td>1 mg/m³ TWA (dust and mist); 0.1 mg/m³ TWA (fume)</td>
</tr>
<tr>
<td>STELs</td>
<td>2 mg/m³ STEL (dust and mist, as Cu, Serial No. 010)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs</td>
<td>10 mg/m³ TWA (Serial No. 461)</td>
<td>10 mg/m³ TWA</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Cont’d.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Korea</th>
<th>Malaysia</th>
<th>Netherlands</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper as Copper compounds</td>
<td>TWAs</td>
<td>1 mg/m³ TWA (dust and mist, as Cu, Serial No. 010); 0.1 mg/m³ TWA (fume, as Cu, Serial No. 011)</td>
<td>0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)</td>
<td>0.1 mg/m³ TWA (inhalable fraction)</td>
<td>1 mg/m³ TWA (dust and mist); 0.1 mg/m³ TWA (fume)</td>
</tr>
<tr>
<td>STELs</td>
<td>2 mg/m³ STEL (dust and mist, as Cu, Serial No. 010)</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs</td>
<td>10 mg/m³ TWA (Serial No. 461)</td>
<td>10 mg/m³ TWA</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Result</td>
<td>Singapore</td>
<td>South Africa</td>
<td>Spain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>--------------</td>
<td>---------------------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>TWAs 10 mg/m3 PEL as Glass wool fiber</td>
<td>Not established</td>
<td>1 fiber/cm³ TWA [VLA-ED] (Fibers with a random orientation, with a content in Alkaline and Alkali-earth oxide [Na₂O+K₂O+CaO+MgO+BaO] above 18% in weight; manufacturing, commercialization, and use restrictions under REACH. Respirable fibers: length &gt;5 µm, aspect ratio &gt;=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers) as Glass wool fiber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper as Copper compounds</td>
<td>TWAs 0.2 mg/m3 PEL (fume); 1 mg/m3 PEL (dust and mist)</td>
<td>0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist, as Cu)</td>
<td>0.2 mg/m3 TWA [VLA-ED] (fume); 1 mg/m3 TWA [VLA-ED] (dust and mist, as Cu)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>TWAs 10 mg/m3 PEL</td>
<td>10 mg/m3 STEL (dust and mist, as Cu)</td>
<td>Not established</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Exposure Control Notations and Exposure Limits Supplemental

OSHA
• N/A

ACGIH
• Copper (7440-50-8): TLV Basis-Critical Effects: (metal fume fever (fume))
• Copper as Copper compounds: TLV Basis-Critical Effects: (gastrointestinal (dust and mist); irritation (dust and mist))
• Titanium dioxide (13463-67-7): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen)
• Titanium dioxide (13463-67-7): TLV Basis - Critical Effects: (lower respiratory tract irritation) | Notice of Intended Changes (TLVs): (Withdrawn from notice of intended changes)

Germany DFG
• Titanium dioxide (13463-67-7): Carcinogens: (Category 3A (could be carcinogenic for man, inhalable fraction with the exception of ultra small particles))

8.2 Exposure controls

Engineering Measures/Controls
• Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory
• In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face
• Wear chemical splash safety goggles.

Skin/Body
• Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls
• Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site
management and disposal of waste.

**Key to abbreviations**
- ACGIH = American Conference of Governmental Industrial Hygiene
- BEI = Biological Exposure Indices
- MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
- NIOSH = National Institute of Occupational Safety and Health
- OSHA = Occupational Safety and Health Administration
- PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
- STEL = Short Term Exposure Limits are based on 15-minute exposures
- STEV = Short Term Exposure Value
- TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
- TWAEV = Time-Weighted Average Exposure Value

---

**Section 9 - Physical and Chemical Properties**

### 9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Form</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>Appearance/Description</strong></td>
<td>White or light yellow, solid sheet</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>White or light yellow</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>General Properties</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>Not relevant</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>&gt;200 C(392 F)</td>
</tr>
<tr>
<td><strong>Specific Gravity/Relative Density</strong></td>
<td>1.5 to 2.5</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Oxidizing Properties:</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>Not relevant</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>Not relevant</td>
</tr>
<tr>
<td><strong>VOC (Vol.)</strong></td>
<td>&lt;0.2%</td>
</tr>
<tr>
<td><strong>Volatiles (Vol.)</strong></td>
<td>&lt;0.2%</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>Not relevant</td>
</tr>
<tr>
<td><strong>VOC (Wt.)</strong></td>
<td>&lt;0.2%</td>
</tr>
<tr>
<td><strong>Volatiles (Wt.)</strong></td>
<td>&lt;0.2%</td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not relevant</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>Negligible &lt; 0.1 %</td>
</tr>
<tr>
<td><strong>Explosive Properties</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Data lacking</strong></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 decomposition will occur at elevated temperatures.
10.4 Conditions to avoid
- Avoid exposure to excessive heat and flames, sparks, or other ignition sources.

10.5 Incompatible materials
- Strong acids, strong bases, strong oxidizers, amines.

10.6 Hazardous decomposition products
- Acrid vapors and fumes, aliphatic and aromatic hydrocarbons of variable composition, CO, CO₂, NOₓ, HCN

Section 11 - Toxicological Information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Multi-dose Toxicity: Inhalation-Rat TClO • 16 mg/m³ 6 Hour(s) 13 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Other changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass, oxide, chemicals (15% TO 60%)</td>
<td>65997-17-3</td>
</tr>
<tr>
<td>Titanium dioxide (1% TO 10%)</td>
<td>13463-67-7</td>
</tr>
</tbody>
</table>

Potential Health Effects

Inhalation
Acute (Immediate) • Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed) • No data available.

Skin
Acute (Immediate) • May cause mild irritation.

Chronic (Delayed) • No data available.

Eye
Acute (Immediate) • May cause mild eye irritation (dust).

Chronic (Delayed) • No data available.

Ingestion
Acute (Immediate) • No data available.

Chronic • No data available.
(Delayed)

Mutagenic Effects

- No data available.

Carcinogenic Effects

- This product contains fibrous glass. Following a thorough review of all the medical-scientific data available at a meeting in October 2001, the IARC panel lowered the classification for fibrous glass from a Group 2B classification ("possibly carcinogenic to humans") to a Group 3 classification ("not classifiable as to carcinogenicity to humans"). According to IARC, there is "no evidence of increased risks of lung cancer from occupational exposures during manufacturing of these materials, and inadequate evidence overall of any cancer risk. This product contains titanium dioxide. IARC has assigned titanium dioxide a Group 2B classification ("possibly carcinogenic to humans").

Reproductive Effects

- No data available.

Key to abbreviations

LC = Lethal Concentration
LD = Lethal Dose
TC = Toxic Concentration
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

- Not expected to be harmful to aquatic life.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 3: Composition Information. For UNUSED & UNCONTAMINATED PRODUCT, the preferred disposal option includes sending to a licensed, permitted waste handler and disposing with incinerator or other thermal destruction device.
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></th>
<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</td>
<td>NA</td>
<td>Not Regulated</td>
<td>NA</td>
<td>NA</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>NA</td>
<td>Not Regulated</td>
<td>NA</td>
<td>NA</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>NA</td>
<td>Not Regulated</td>
<td>NA</td>
<td>NA</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>NA</td>
<td>Not Regulated</td>
<td>NA</td>
<td>NA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user

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

• None specified.

• Material not supplied in bulk form.

Section 15 - Regulatory Information

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

SARA Hazard Classifications

State Right To Know • Chronic

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>9002-84-0</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>China</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>9002-84-0</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Inventory (Con’t.)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Japan ENCS</th>
<th>Korea KECL</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>9002-84-0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Australia

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

•Glass, oxide, chemicals

•Glass, oxide, chemicals as Glass wool fiber

TSCA: Not Listed
• Copper 7440-50-8 Not Listed
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed

**Australia - High Volume Industrial Chemicals List**

• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Copper 7440-50-8 Self classification required (dust, fume, and mist)
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed

**Environment**

**Australia - National Pollutant Inventory (NPI) Substance List**

• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed

• Copper 7440-50-8

• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed

**Australia - List of Designated Hazardous Substances - Classification**

• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Copper 7440-50-8
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed

**Australia - Ozone Protection Act - Scheduled Substances**

• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed

• Copper 7440-50-8
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed

**Australia - Priority Existing Chemical Program**

• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Copper 7440-50-8
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed

**Canada**

**Labor**

**Canada - WHMIS - Classifications of Substances**

• Glass, oxide, chemicals 65997-17-3 Not Listed

• Glass, oxide, chemicals as Glass wool fiber

• Copper 7440-50-8

• Polytetrafluoroethylene 9002-84-0

---

Original GHS Format Preparation Date: 16/July/2015
Revision Date: 7 February 2019
Format: EU CLP/REACH, EU DSD/DPD, WHMIS, and OSHA HCS 2012
• Titanium dioxide

Canada - WHMIS - Ingredient Disclosure List
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Copper 7440-50-8 1 %
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed

Environment
Canada - CEPA - Priority Substances List
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Copper 7440-50-8 Not Listed
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed

Europe
Other
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Copper 7440-50-8 Not Listed
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Copper 7440-50-8 Not Listed
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Copper 7440-50-8 Not Listed
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Copper 7440-50-8 Not Listed
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Copper 7440-50-8 Not Listed
• Polytetrafluoroethylene 9002-84-0 Not Listed
• Titanium dioxide 13463-67-7 Not Listed

Germany

Original GHS Format Preparation Date: 16/July/2015
Revision Date: 7 February 2019
Format: EU CLP/REACH, EU DSD/DPD, WHMIS, and OSHA HCS 2012
Environment

**Germany - TA Luft - Types and Classes**
- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Copper
- Titanium dioxide

**Germany - TA Luft - Emission Limits for Carcinogenic Substances**
- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Copper
- Titanium dioxide

**Germany - TA Luft - Emission Limits for Fibers**
- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Copper
- Titanium dioxide

**Germany - TA Luft - Emission Limits for Inorganic Dusts**
- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Copper
- Titanium dioxide

**Germany - TA Luft - Emission Limits for Inorganic Gases**
- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Copper
- Titanium dioxide

**Germany - TA Luft - Emission Limits for Organic Substances**
- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Copper
- Titanium dioxide

**Germany - Water Classification (VwVwS) - Annex 1**
- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Copper
- Titanium dioxide

**Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes**
- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Copper
- Titanium dioxide

**Germany - Water Classification (VwVwS) - Annex 3**
- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Copper
- Titanium dioxide

**United States**

**Labor**
- U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
• Glass, oxide, chemicals as Glass wool fiber
• Copper
• Polytetrafluoroethylene
• Titanium dioxide

U.S. - OSHA - Specifically Regulated Chemicals
• Glass, oxide, chemicals
• Glass, oxide, chemicals as Glass wool fiber
• Copper
• Polytetrafluoroethylene
• Titanium dioxide

Environment
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
• Glass, oxide, chemicals
• Glass, oxide, chemicals as Glass wool fiber

• Copper
• Polytetrafluoroethylene
• Titanium dioxide

U.S. - CERCLA/SARA - Radionuclides and their Reportable Quantities
• Glass, oxide, chemicals
• Glass, oxide, chemicals as Glass wool fiber

• Copper
• Polytetrafluoroethylene
• Titanium dioxide

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
• Glass, oxide, chemicals
• Glass, oxide, chemicals as Glass wool fiber
• Copper
• Polytetrafluoroethylene
• Titanium dioxide

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
• Glass, oxide, chemicals
• Glass, oxide, chemicals as Glass wool fiber
• Copper
• Polytetrafluoroethylene
• Titanium dioxide

U.S. - CERCLA/SARA - Section 313 - Emission Reporting
### NH9000/NL9000 Copper Clad Laminate

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**
- Glass, oxide, chemicals: Not Listed
- Glass, oxide, chemicals as Glass wool fiber: Not Listed
- Copper: Not Listed
- Polytetrafluoroethylene: Not Listed
- Titanium dioxide: Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII**
- Glass, oxide, chemicals: Not Listed
- Polytetrafluoroethylene: Not Listed
- Titanium dioxide: Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring**
- Glass, oxide, chemicals: Not Listed
- Copper: Not Listed
- Polytetrafluoroethylene: Not Listed
- Titanium dioxide: Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents**
- Glass, oxide, chemicals: Not Listed
- Glass, oxide, chemicals as Glass wool fiber: Not Listed
- Copper: Not Listed
- Polytetrafluoroethylene: Not Listed
- Titanium dioxide: Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards**
- Glass, oxide, chemicals: Not Listed
- Polytetrafluoroethylene: Not Listed
- Titanium dioxide: Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring**
- Glass, oxide, chemicals: Not Listed
- Copper: Not Listed
- Polytetrafluoroethylene: Not Listed
- Titanium dioxide: Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics**
- Titanium dioxide: Not Listed

### United States - California

#### Environment

**U.S. - California - Proposition 65 - Carcinogens List**
- Glass, oxide, chemicals: 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber: Not Listed
- Copper: 7440-50-8 1.0 % de minimis concentration
- Polytetrafluoroethylene: 9002-84-0 Not Listed
- Titanium dioxide: 13463-67-7 Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**
- Glass, oxide, chemicals: 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber: Not Listed
- Copper: 7440-50-8 Not Listed
- Polytetrafluoroethylene: 9002-84-0 Not Listed
15.2 Chemical Safety Assessment
No Chemical Safety Assessment has been carried out.

15.3 Other Information
WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 16 - Other Information

Relevant Phrases (code & full text)
- N/A

Last Revision Date • 16/July/2015 – Create SDS (PAPDC).
Preparation Date • 16/July/2015
Disclaimer/Statement of Liability • The information and recommendations contained in this Safety Data Sheet (SDS) are supplied pursuant to the Occupational Safety and Health Administration’s Hazard...
Communication Standard as promulgated under 29 CFR 1910.1200 and the United States Environmental Protection Agency's Supplier Notification Rule as promulgated under 40 CFR 372.45. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in the proper procedures of safe chemical handling. The information contained herein is provided in good faith with no representation as to its comprehensiveness or accuracy. No representations or warranties, either express or implied, of merchantability, or fitness for a particular purpose or of any nature are made with respect to the material described in this Safety Data Sheet. Chemical additions or processing or otherwise altering this material may make the safety information presented in this Safety Data Sheet incomplete, inaccurate or otherwise inappropriate. The information listed above does not include all state, federal, and international regulations. The regulatory information supplied may change from time to time. It is the user’s responsibility to keep advised of all applicable regulatory requirements.