SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 95/5 Tin-Antimony Solder
Product Size: ALL

Other means of identification
SDS number: 200000007453

Recommended use and restriction on use
Recommended use: Metal Soldering
Restrictions on use: Not known. Read this SDS before using this product.

Manufacturer/Importer/Supplier/Distributor Information
Company Name: The Harris Products Group
Address: 4501 Quality Place
Mason, OH 45040-1971
USA
Telephone: +1 (513) 754-2000
Contact Person: Safety Data Sheet Questions: custservmason@jwharris.com

Emergency telephone number:
USA/Canada/Mexico +1 (888) 609-1762
Americas/Europe +1 (216) 383-8962
Asia Pacific +1 (216) 383-8966
Middle East/Africa +1 (216) 383-8969

3E Company Access Code: 333988

2. HAZARDS IDENTIFICATION


Hazard Classification
Not classified as hazardous according to applicable GHS hazard classification criteria.

Label Elements
Hazard Symbol: No symbol
Signal Word: No signal word.
Hazard Statement: Not applicable
Precautionary Statements: Not applicable

Other hazards which do not result in GHS classification:
Overexposure to fumes and gases from the solder and/or flux material can be hazardous. Read and understand the manufacturer’s instructions, Safety Data Sheets and the precautionary labels before using this product.
**Substance(s) formed under the conditions of use:**

Fumes produced from use of this product may contain the following constituent(s) and/or their complex metallic oxides as well as solid particles or other constituents from the solder, brazing consumable, flux material or base metal, or base metal coating not listed below.

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>630-08-0</td>
</tr>
<tr>
<td>Nitrogen dioxide</td>
<td>10102-44-0</td>
</tr>
<tr>
<td>Ozone</td>
<td>10028-15-6</td>
</tr>
</tbody>
</table>

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Reportable Hazardous Ingredients**

**Mixtures**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tin</td>
<td>7440-31-5</td>
<td>50 - &lt;100%</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu)</td>
<td>7440-50-8</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>1 - &lt;5%</td>
</tr>
</tbody>
</table>

*All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition Comments:**

The term "Hazardous Ingredients" should be interpreted as a term defined in Hazard Communication standards and does not necessarily imply the existence of a welding hazard. The product may contain additional non-hazardous ingredients or may form additional compounds under the condition of use. Refer to Sections 2 and 8 for more information.

**4. FIRST AID MEASURES**

**Ingestion:**

Avoid hand, clothing, food, and drink contact with fluxes, metal fume or powder which can cause ingestion of particulate during hand to mouth activities such as drinking, eating, smoking, etc. If ingested, do not induce vomiting. Contact a poison control center. Unless the poison control center advises otherwise, wash out mouth thoroughly with water. If symptoms develop, seek medical attention at once.

**Inhalation:**

Move to fresh air if breathing is difficult. If breathing has stopped, perform artificial respiration and obtain medical assistance at once.

**Skin Contact:**

Remove contaminated clothing and wash the skin thoroughly with soap and water. For reddened or blistered skin, or thermal burns, obtain medical assistance at once.

**Eye contact:**

Do not rub eye. Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

**Symptoms:**

Short-term (acute) overexposure to fumes and gases from welding and allied processes may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre-existing respiratory problems (e.g. asthma, emphysema).
Long-term (chronic) overexposure to fumes and gases from welding and allied processes can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects. Refer to Section 11 for more information.

Hazards: The hazards associated with welding and its allied processes such as soldering and brazing are complex and may include physical and health hazards such as but not limited to electric shock, physical strains, radiation burns (eye flash), thermal burns due to hot metal or spatter and potential health effects of overexposure to fumes, gases or dusts potentially generated during the use of this product. Refer to Section 11 for more information.

Indication of immediate medical attention and special treatment needed
Treatment: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

General Fire Hazards: As shipped, this product is nonflammable. However, welding arc and sparks as well as open flames and hot surfaces associated with brazing and soldering can ignite combustible and flammable materials. Read and understand American National Standard Z49.1, “Safety in Welding, Cutting and Allied Processes” and National Fire Protection Association NFPA 51B, “Standard for Fire Prevention during Welding, Cutting and Other Hot Work” before using this product.

Suitable (and unsuitable) extinguishing media
Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Special fire fighting procedures: Use standard firefighting procedures and consider the hazards of other involved materials.
Special protective equipment for fire-fighters: Selection of respiratory protection for fire fighting; follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: If airborne dust and/or fume is present, use adequate engineering controls and, if needed, personal protection to prevent overexposure. Refer to recommendations in Section 8.

Methods and material for containment and cleaning up: Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk. Clean up spills immediately, observing precautions in the personal protective equipment in Section 8. Avoid generating dust. Prevent product from entering any drains, sewers or water sources. Refer to Section 13 for proper disposal.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. HANDLING AND STORAGE

Precautions for safe handling: Prevent abrading consumable materials or creating dust. Provide appropriate exhaust ventilation at places where fume or dust is formed. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.


Conditions for safe storage, including any incompatibilities: Store in closed original container in a dry place. Store in accordance with local/regional/national regulations. Store away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters
Occupational Exposure Limits: US

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tin</td>
<td>TWA</td>
<td>2 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (12 2010)</td>
</tr>
<tr>
<td>Tin - as Sn</td>
<td>PEL</td>
<td>2 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>2 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>TWA</td>
<td>1 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (03 2014)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Fume. - as Cu</td>
<td>TWA</td>
<td>0.2 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (03 2014)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>0.1 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2016)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>REL</td>
<td>1 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2016)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Fume. - as Cu</td>
<td>PEL</td>
<td>0.1 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>PEL</td>
<td>1 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Antimony - as Sb</td>
<td>TWA</td>
<td>0.5 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (12 2010)</td>
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<tr>
<td></td>
<td>REL</td>
<td>0.5 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>0.5 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
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</tbody>
</table>

Occupational Exposure Limits: Canada

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<tr>
<th>Chemical Identity</th>
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<tbody>
<tr>
<td>Tin - as Sn</td>
<td>TWA</td>
<td>2 mg/m3</td>
<td>Canada. Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
</tr>
<tr>
<td>Tin</td>
<td>TWA</td>
<td>2 mg/m3</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for</td>
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<tr>
<td>Substance</td>
<td>Unit</td>
<td>Limit</td>
<td>Source</td>
</tr>
<tr>
<td>----------------------------</td>
<td>------</td>
<td>--------</td>
<td>-------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Tin</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Canada, Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)</td>
</tr>
<tr>
<td></td>
<td>8 HR ACL</td>
<td>2 mg/m³</td>
<td>Canada, Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)</td>
</tr>
<tr>
<td></td>
<td>15 MIN ACL</td>
<td>4 mg/m³</td>
<td>Canada, Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Fume.</td>
<td>TWA</td>
<td>0.2 mg/m³</td>
<td>Canada, Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Canada, Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Fume. - as Cu</td>
<td>TWA</td>
<td>0.2 mg/m³</td>
<td>Canada, British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Canada, British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Fume. - as Cu</td>
<td>TWA</td>
<td>0.2 mg/m³</td>
<td>Canada, Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Canada, Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Fume.</td>
<td>TWA</td>
<td>0.2 mg/m³</td>
<td>Canada, Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2014)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Canada, Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2014)</td>
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<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Fume.</td>
<td>TWA</td>
<td>0.2 mg/m³</td>
<td>Canada, Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Canada, Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Fume. - as Cu</td>
<td>TWA</td>
<td>8 HR ACL</td>
<td>0.6 mg/m³</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>TWA</td>
<td>15 MIN ACL</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Fume. - as Cu</td>
<td>TWA</td>
<td>8 HR ACL</td>
<td>0.2 mg/m³</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Canada, Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)</td>
</tr>
<tr>
<td>Antimony - as Sb</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td>Canada, Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td>Canada, British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
</tbody>
</table>

**Notes:**
- TWA: Time-Weighted Average
- 8 HR ACL: 8-hour Average Ceiling Limit
- 15 MIN ACL: 15-minute Ceiling Limit

**References:**
- Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended (07 2007)
- Canada, Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
- Canada, Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
- Canada, Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
- Canada, Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
## Occupational Exposure Limits: Mexico

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tin</td>
<td>VLE-PPT</td>
<td>2 mg/m³</td>
<td>Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Fume. - as Cu</td>
<td>VLE-PPT</td>
<td>0.2 mg/m³</td>
<td>Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu) - Dust and mist. - as Cu</td>
<td>VLE-PPT</td>
<td>1 mg/m³</td>
<td>Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)</td>
</tr>
<tr>
<td>Antimony - as Sb</td>
<td>VLE-PPT</td>
<td>0.5 mg/m³</td>
<td>Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)</td>
</tr>
</tbody>
</table>

## Additional exposure limits under the conditions of use: US

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide</td>
<td>TWA</td>
<td>5,000 ppm</td>
<td>US. ACGIH Threshold Limit Values (12 2010)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>30,000 ppm</td>
<td>US. ACGIH Threshold Limit Values (12 2010)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>5,000 ppm 9,000 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>30,000 ppm 54,000 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>5,000 ppm 9,000 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>TWA</td>
<td>25 ppm</td>
<td>US. ACGIH Threshold Limit Values (12 2010)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>50 ppm 55 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
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<td></td>
<td>REL</td>
<td>35 ppm 40 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>Ceil_Time</td>
<td>200 ppm 229 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Nitrogen dioxide</td>
<td>TWA</td>
<td>0.2 ppm</td>
<td>US. ACGIH Threshold Limit Values (02 2012)</td>
</tr>
<tr>
<td></td>
<td>Ceiling</td>
<td>5 ppm 9 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1 ppm 1.8 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Ozone</td>
<td>PEL</td>
<td>0.1 ppm 0.2 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>Ceil_Time</td>
<td>0.1 ppm 0.2 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.05 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2012)</td>
</tr>
</tbody>
</table>
## Additional exposure limits under the conditions of use: Canada

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<tr>
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<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide</td>
<td>STEL</td>
<td>30,000 ppm 54,000 mg/m3</td>
<td>Canada. Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5,000 ppm 9,000 mg/m3</td>
<td>Canada. Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5,000 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>15,000 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5,000 ppm</td>
<td>Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>30,000 ppm</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5,000 ppm</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td></td>
<td>8 HR ACL</td>
<td>5,000 ppm</td>
<td>Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)</td>
</tr>
<tr>
<td></td>
<td>15 MIN ACL</td>
<td>30,000 ppm</td>
<td>Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5,000 ppm 9,000 mg/m3</td>
<td>Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)</td>
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<tr>
<td></td>
<td>STEL</td>
<td>30,000 ppm 54,000 mg/m3</td>
<td>Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>TWA</td>
<td>25 ppm 29 mg/m3</td>
<td>Canada. Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
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<tr>
<td></td>
<td>TWA</td>
<td>25 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>100 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
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<tr>
<td></td>
<td>TWA</td>
<td>25 ppm</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (07 2010)</td>
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<tr>
<td>Parameter</td>
<td>Value</td>
<td>Description</td>
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<td></td>
</tr>
<tr>
<td>8 HR ACL</td>
<td>25 ppm</td>
<td>Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)</td>
<td></td>
</tr>
<tr>
<td>15 MIN ACL</td>
<td>190 ppm</td>
<td>Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>35 ppm 40 mg/m3</td>
<td>Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)</td>
<td></td>
</tr>
<tr>
<td>STEL</td>
<td>200 ppm 230 mg/m3</td>
<td>Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)</td>
<td></td>
</tr>
<tr>
<td>Nitrogen dioxide</td>
<td>STEL 5 ppm 9.4 mg/m3</td>
<td>Canada. Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>3 ppm 5.6 mg/m3</td>
<td>Canada. Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
<td></td>
</tr>
<tr>
<td>CEILING</td>
<td>1 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>0.2 ppm</td>
<td>Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2012)</td>
<td></td>
</tr>
<tr>
<td>STEL</td>
<td>5 ppm</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>3 ppm</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
<td></td>
</tr>
<tr>
<td>8 HR ACL</td>
<td>3 ppm</td>
<td>Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)</td>
<td></td>
</tr>
<tr>
<td>15 MIN ACL</td>
<td>5 ppm</td>
<td>Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>3 ppm 5.5 mg/m3</td>
<td>Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)</td>
<td></td>
</tr>
<tr>
<td>Ozone</td>
<td>STEL 0.3 ppm 0.6 mg/m3</td>
<td>Canada. Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>0.1 ppm 0.2 mg/m3</td>
<td>Canada. Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2) (07 2009)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>0.05 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>0.1 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>0.08 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>0.2 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>0.1 ppm 0.2 mg/m3</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (07 2010)</td>
<td></td>
</tr>
</tbody>
</table>
| STEL               | 0.3 ppm 0.6 mg/m3 | Canada. Ontario OELs. (Control of
Additional exposure limits under the conditions of use: Mexico

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide</td>
<td>VLE-CT</td>
<td>30,000 ppm</td>
<td>Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)</td>
</tr>
<tr>
<td></td>
<td>VLE-PPT</td>
<td>5,000 ppm</td>
<td>Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>VLE-PPT</td>
<td>25 ppm</td>
<td>Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)</td>
</tr>
<tr>
<td>Nitrogen dioxide</td>
<td>VLE-PPT</td>
<td>0.2 ppm</td>
<td>Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)</td>
</tr>
<tr>
<td>Ozone</td>
<td>VLE-P</td>
<td>0.1 ppm</td>
<td>Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)</td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls

Ventilation: Use enough ventilation and local exhaust at the arc, flame or heat source to keep the fumes and gases from the worker’s breathing zone and the general area. Train the operator to keep their head out of the fumes. Keep exposure as low as possible.

Individual protection measures, such as personal protective equipment

General information:

Exposure Guidelines: Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs) are values published by the American Conference of Government Industrial Hygienists (ACGIH). ACGIH Statement of Positions Regarding the TLVs® and BEIs® states that the TLV-TWA should be used as a guide in the control of health hazards and should not be used to indicate a fine line between safe and dangerous exposures. See Section 10 for information on potential fume constituents of health interest. Threshold Limit Values are figures published by the American Conference of Government Industrial Hygienists.

Eye/face protection:

Wear helmet, face shield or eye protection with filter lens shade number 2 for torch soldering and 3-4 for torch brazing, and follow the recommendations as specified in ANSI Z49.1, Section 4, based on your process details. Shield others by providing appropriate screens and eye protection.
Skin Protection
Hand Protection: Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

Other: Protective Clothing: Wear hand, head, and body protection which help to prevent injury from radiation, open flames, hot surfaces, sparks and electrical shock. See Z49.1. At a minimum, this includes welder's gloves and a protective face shield when welding, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing when welding, brazing and soldering. Wear dry gloves free of holes or split seams. Train the operator not to permit electrically live parts or electrodes from contacting the skin . . . or clothing or gloves if they are wet. Insulate yourself from the work piece and ground using dry plywood, rubber mats or other dry insulation.

Respiratory Protection: Keep your head out of fumes. Use enough ventilation and local exhaust to keep fumes and gases from your breathing zone and the general area. An approved respirator should be used unless exposure assessments are below applicable exposure limits.

Hygiene measures: Do not eat, drink or smoke when using the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not below limits. See ANSI/AWS F1.1, F1.2, F1.3 and F1.5, available from the American Welding Society, www.aws.org.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Soldering consumable.
Physical state: Solid
Form: Solid
Color: No data available.
Odor: No data available.
Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling range: No data available.
Flash Point: No data available.
Evaporation rate: No data available.
Flammability (solid, gas): No data available.
Upper/lower limit on flammability or explosive limits
Flammability limit - upper (%): No data available.
Flammability limit - lower (%): No data available.
Explosive limit - upper (%): No data available.
Explosive limit - lower (%): No data available.
Vapor pressure: No data available.
Vapor density: No data available.
Density: No data available.
Relative density: No data available.
Solubility(ies):
Solubility in water: No data available.
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

10. STABILITY AND REACTIVITY

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: None under normal conditions.
Conditions to avoid: Avoid heat or contamination.

Hazardous Decomposition Products:

Fumes and gases from welding and its allied processes such as brazing and soldering cannot be classified simply. The composition and quantity of both are dependent upon the metal to which the joining or hot work is applied, the process, procedure - and where applicable - the electrode or consumable used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being welded or worked (such as paint, plating, or galvanizing), the number of operators and the volume of the work area, the quality and amount of ventilation, the position of the operator's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities.)

In cases where an electrode or other applied material is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. Decomposition products of normal operation include those originating from the volatilization, reaction, or oxidation of the materials shown in Section 3, plus those from the base metal and coating, etc., as noted above. Reasonably expected fume constituents produced during arc welding and brazing include the oxides of iron, manganese and other metals present in the welding consumable or base metal. Hexavalent chromium compounds may be in the welding or brazing fume of consumables or base metals which contain chromium. Gaseous and particulate fluoride may be in the fume of consumables or flux materials which contain fluoride. Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc associated with welding.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation: Inhalation is the primary route of exposure. In high concentrations, dust, vapors, fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: Moderately irritating to skin with prolonged exposure.

Eye contact: HEAT RAYS (INFRARED RADIATION) from flame or hot metal can injure eyes.

Ingestion: Avoid ingestion - wear gloves and other appropriate personal protection - wash hands thoroughly following use or handling.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: This product may contain antimony trioxide or generate airborne metallic oxides containing antimony during use. Lung cancer has been observed in some studies of workers, and mice breathing high concentrations of antimony trioxide. The International Agency for Research on Cancer has determined that antimony trioxide is possibly carcinogenic to humans (Group 2B). Short-term (acute) overexposure to fumes and gases from brazing and soldering may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre-existing respiratory problems (e.g. asthma, emphysema). Long-term (chronic) overexposure to fumes and gases from brazing and soldering can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects. Products which contain lead or cadmium have additional specific health hazards - refer to Sections 2, 8 and 11 of this SDS.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):
- Copper and/or copper alloys and compounds (as Cu)

LD 50 (Rat): 481 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s):
- Antimony LC 50 (Rat, 4 h): > 5.2 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Not classified

Serious Eye Damage/Eye Irritation

Product: Not classified

Respiratory or Skin Sensitization

Product: Respiratory Sensitization: Not classified

Skin Sensitization: Not classified

Carcinogenicity
Product: Not classified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

No carcinogenic components identified

Germ Cell Mutagenicity
In vitro
Product: Not classified

In vivo
Product: Not classified

Reproductive toxicity
Product: Not classified

Specific Target Organ Toxicity - Single Exposure
Product: Not classified

Specific Target Organ Toxicity - Repeated Exposure
Product: Not classified

Aspiration Hazard
Product: Not applicable

Symptoms related to the physical, chemical and toxicological characteristics under the condition of use

Additional toxicological Information under the conditions of use:

Acute toxicity
Inhalation
Specified substance(s):
Carbon dioxide LC Lo (Human, 5 min): 90000 ppm
Carbon monoxide LC 50 (Rat, 4 h): 1.300 mg/l
Nitrogen dioxide LC 50 (Rat, 4 h): 88 ppm
Ozone LC Lo (Human, 30 min): 50 ppm

Other effects:
Specified substance(s):
Carbon dioxide Asphyxia
Carbon monoxide Carboxyhemoglobinemia
Nitrogen dioxide Lower respiratory tract irritation

12. ECOLOGICAL INFORMATION

Ecotoxicity
Acute hazards to the aquatic environment:
Fish
Product: Not classified
Specified substance(s):
Copper and/or copper alloys and compounds (as Cu) LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1.6 mg/l
Antimony

LC 50 (Sheepshead minnow (Cyprinodon variegatus), 96 h): > 6.2 - < 8.3 mg/l

**Aquatic Invertebrates**

**Product:** Not classified

**Specified substance(s):**
- Copper and/or copper alloys and compounds (as Cu)

**EC 50 (Water flea (Daphnia magna), 48 h):** 0.102 mg/l

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** Not classified

**Aquatic Invertebrates**

**Product:** Not classified

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s):**
- Copper and/or copper alloys and compounds (as Cu)

**LC 50 (Green algae (Scenedesmus dimorphus), 3 d):** 0.0623 mg/l

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**
- Copper and/or copper alloys and compounds (as Cu)

**Blue-green algae (Anacystis nidulans), Bioconcentration Factor (BCF):**

36.01 (Static)

**Mobility in soil:**

No data available.

---

### 13. DISPOSAL CONSIDERATIONS

**General information:**

The generation of waste should be avoided or minimized whenever possible. When practical, recycle in an environmentally acceptable, regulatory compliant manner. Dispose of non-recyclable products in accordance with all applicable Federal, State, Provincial, and Local requirements.

**Disposal instructions:**

Dispose of this material and its container to hazardous or special waste collection point.

**Contaminated Packaging:**

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

---

### 14. TRANSPORT INFORMATION

**DOT**

**UN Number:**
UN Proper Shipping Name: NOT DG REGULATED
Transport Hazard Class(es)
  Class: NR
  Label(s): –
Packing Group: –
Marine Pollutant: No

IMDG
UN Number:
UN Proper Shipping Name: NOT DG REGULATED
Transport Hazard Class(es)
  Class: NR
  Label(s): –
EmS No.: –
Packing Group: –
Marine Pollutant: No

IATA
UN Number:
Proper Shipping Name: NOT DG REGULATED
Transport Hazard Class(es):
  Class: NR
  Label(s): –
Packing Group: –
Marine Pollutant: No
Cargo aircraft only: Allowed.

TDG
UN Number:
UN Proper Shipping Name: NOT DG REGULATED
Transport Hazard Class(es)
  Class: NR
  Label(s): –
Packing Group: –
Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
  None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
  None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu)</td>
<td>5000lbs.</td>
</tr>
<tr>
<td>Antimony</td>
<td>5000lbs.</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
  Not classified
  Not classified

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu)</td>
<td>5000 lbs.</td>
</tr>
<tr>
<td>Antimony</td>
<td>5000 lbs.</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazardous Chemical**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tin</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu)</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Antimony</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

**SARA 313 (TRI Reporting)**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reporting threshold for other users</th>
<th>Reporting threshold for manufacturing and processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper and/or copper alloys and compounds (as Cu)</td>
<td>10000 lbs</td>
<td>25000 lbs.</td>
</tr>
<tr>
<td>Antimony</td>
<td>10000 lbs</td>
<td>25000 lbs.</td>
</tr>
</tbody>
</table>

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**: None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

**WARNING**: This product contains or produces a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code Section 25249.5 et seq.)

**US. New Jersey Worker and Community Right-to-Know Act**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tin</td>
</tr>
<tr>
<td>Antimony</td>
</tr>
</tbody>
</table>

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tin</td>
</tr>
<tr>
<td>Antimony</td>
</tr>
</tbody>
</table>

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**Canada Federal Regulations**

**List of Toxic Substances (CEPA, Schedule 1)**

Not Regulated

**Export Control List (CEPA 1999, Schedule 3)**

Not Regulated
National Pollutant Release Inventory (NPRI)
Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements
NPRI PT5 Not Regulated

Canada. Canadian Environmental Protection Act (CEPA). National Pollutant Release Inventory (NPRI) (Parts 1-4)
NPRI Not Regulated

Greenhouse Gases
Not Regulated

Controlled Drugs and Substances Act
CA CDSI Not Regulated
CA CDSII Not Regulated
CA CDSIII Not Regulated
CA CDSIV Not Regulated
CA CDSV Not Regulated
CA CDSVII Not Regulated
CA CDSVIII Not Regulated

Precursor Control Regulations
Not Regulated

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR): not applicable

Inventory Status:
- Australia AICS: On or in compliance with the inventory
- Canada DSL Inventory List: On or in compliance with the inventory
- EINECS, ELINCS or NLP: On or in compliance with the inventory
- Japan (ENCS) List: One or more components are not listed or are exempt from listing.
- China Inv. Existing Chemical Substances: On or in compliance with the inventory
- Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory
- Canada NDSL Inventory: One or more components are not listed or are exempt from listing.
- Philippines PICCS: On or in compliance with the inventory
- US TSCA Inventory: On or in compliance with the inventory
- New Zealand Inventory of Chemicals: On or in compliance with the inventory
- Japan ISHL Listing: One or more components are not listed or are exempt from listing.
- Japan Pharmacopoeia Listing: One or more components are not listed or are exempt from listing.
- Mexico INSQ: One or more components are not listed or are exempt from listing.
- Ontario Inventory: One or more components are not listed or are exempt from listing.
- Taiwan Chemical Substance Inventory: One or more components are not listed or are exempt from listing.

16. OTHER INFORMATION

Definitions:

Revision Date: 03/21/2018

Further Information: Additional information is available by request.

Disclaimer: The Lincoln Electric Company urges each end user and recipient of this SDS to study it carefully. See also www.lincolnelectric.com/safety. If necessary,
consult an industrial hygienist or other expert to understand this information and safeguard the environment and protect workers from potential hazards associated with the handling or use of this product. This information is believed to be accurate as of the revision date shown above. However, no warranty, expressed or implied, is given. Because the conditions or methods of use are beyond Lincoln Electric’s control, we assume no liability resulting from the use of this product. Regulatory requirements are subject to change and may differ between various locations. Compliance with all applicable Federal, State, Provincial, and local laws and regulations remain the responsibility of the user.

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