Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code  PM024
Product Name  Copper Base Alloy Powder
Synonyms  Copper Base Alloy Powder: Cu-Cr Alloy, GRCop-84 Alloy, GRCop-42 Alloy, Cu-Zr Alloy, Cu-Nb Alloy, Narloy-Z, Amzirc Alloy
Contains Nickel

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

Recommended Use  Alloy product manufacture
Uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer Address  ATI, 1000 Six PPG Place, Pittsburgh, PA 15222 USA

1.4. Emergency telephone number

Emergency Telephone  Chemtrec: +1-703-741-5970

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute aquatic toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

2.2. Label elements

Warning

Hazard statements
Harmful if swallowed
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects

Emergency Overview

Appearance  Powder
Physical state  Solid
Odour  Odourless
Precautionary Statements - Prevention
Wash hands thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid release to the environment

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Collect spillage

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

2.3 Hazards not otherwise classified (HNOC)
Not applicable

Other Information
When product is subjected to welding, burning, melting, sawing, brazing, grinding, buffing, polishing, or other similar
heat-generating processes, the following potentially hazardous airborne particles and/or fumes may be generated: Hexavalent
Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer.
Zinc, copper, magnesium, or cadmium fumes may cause metal fume fever.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Synonyms

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>231-159-6</td>
<td>7440-50-8</td>
<td>70 - 99.85</td>
</tr>
<tr>
<td>Chromium</td>
<td>231-157-5</td>
<td>7440-47-3</td>
<td>0 - 27</td>
</tr>
<tr>
<td>Niobium</td>
<td>231-113-5</td>
<td>7440-03-1</td>
<td>0 - 9</td>
</tr>
<tr>
<td>Silver</td>
<td>231-131-3</td>
<td>7440-22-4</td>
<td>0 - 3</td>
</tr>
<tr>
<td>Zirconium</td>
<td>231-176-9</td>
<td>7440-67-7</td>
<td>0 - 0.5</td>
</tr>
</tbody>
</table>

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures
Inhalation
If excessive amounts of smoke, fume, or particulate are inhaled during processing, remove
to fresh air and consult a qualified health professional.

Skin Contact
None under normal use conditions.

Eye contact
In the case of particles coming in contact with eyes during processing, treat as with any
foreign object.

Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms
May cause acute gastrointestinal effects if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed
Note to doctors
Treat symptomatically.
Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media
Product not flammable in the form as distributed, flammable as finely divided particles or pieces resulting from processing of this product.

- Small Fire: Smother with salt (NaCl) or class D dry powder fire extinguisher.
- Large Fire: Isolate fire and allow to burn out.

Unsuitable extinguishing media
Do not spray water on burning metal as an explosion may occur. This explosive characteristic is caused by the hydrogen and steam generated by the reaction of water with the burning material.

5.2. Special hazards arising from the substance or mixture

Intense heat. Very fine, high surface area material resulting from processing this product may ignite spontaneously at room temperature WARNING: Fine particles of this product may form combustible dust-air mixtures. Keep particles away from all ignition sources including heat, sparks, and flame. Prevent dust accumulations to minimise combustible dust hazard.

Hazardous combustion products Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer. Zinc, copper, magnesium, or cadmium fumes may cause metal fume fever.

5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment as required.

For emergency responders

6.2. Environmental precautions

Collect spillage to prevent release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Sweep or shovel material into dry containers. Avoid creating uncontrolled dust.

6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling
Very fine, high surface area material resulting from grinding, buffing, polishing, or similar processes of this product may ignite spontaneously at room temperature. WARNING: Fine particles of this product may form combustible dust-air mixtures. Keep particles away from all ignition sources including heat, sparks, and flame. Prevent dust accumulations to minimise combustible dust hazard.
General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials
Dissolves in hydrofluoric acid.

7.3. Specific end use(s)

Risk Management Methods (RMM)
The information required is contained in this Safety Data Sheet.

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper 7440-50-8</td>
<td>STEL: 0.6 mg/m³</td>
<td>TWA: 0.2 mg/m³</td>
<td>TWA: 0.2 mg/m³</td>
<td>TWA: 0.2 mg/m³</td>
<td>TWA: 0.1 mg/m³</td>
</tr>
<tr>
<td>Chromium 7440-47-3</td>
<td>TWA: 2 mg/m³</td>
<td>STEL: 1.5 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
</tr>
<tr>
<td>Niobium 7440-03-1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Silver 7440-22-4</td>
<td>TWA 0.1 mg/m³</td>
<td>STEL: 0.3 mg/m³</td>
<td>TWA: 0.1 mg/m³</td>
<td>TWA: 0.1 mg/m³</td>
<td>TWA: 0.01 mg/m³</td>
</tr>
<tr>
<td>Zirconium 7440-67-7</td>
<td>-</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 1 mg/m³</td>
<td>TWA: 1 mg/m³</td>
<td>TWA: 1 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Italy</th>
<th>Portugal</th>
<th>Netherlands</th>
<th>Finland</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper 7440-50-8</td>
<td>TWA: 0.2 mg/m³</td>
<td>TWA: 0.1 mg/m³</td>
<td>TWA: 0.1 mg/m³</td>
<td>TWA: 0.1 mg/m³</td>
<td>TWA: 0.1 mg/m³</td>
</tr>
<tr>
<td>Chromium 7440-47-3</td>
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<td>TWA: 0.5 mg/m³</td>
<td>TWA: 0.5 mg/m³</td>
<td>TWA: 0.5 mg/m³</td>
<td>TWA: 0.5 mg/m³</td>
</tr>
<tr>
<td>Niobium 7440-03-1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>TWA: 5 mg/m³</td>
</tr>
<tr>
<td>Silver 7440-22-4</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.01 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.01 mg/m³</td>
</tr>
<tr>
<td>Zirconium 7440-67-7</td>
<td>STEL 10 mg/m³</td>
<td>TWA 5 mg/m³</td>
<td>TWA 1 mg/m³</td>
<td>TWA 1 mg/m³</td>
<td>TWA 5 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Austria</th>
<th>Switzerland</th>
<th>Poland</th>
<th>Norway</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper 7440-50-8</td>
<td>STEL 4 mg/m³</td>
<td>STEL 0.2 mg/m³</td>
<td>TWA 0.2 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 2 mg/m³</td>
</tr>
<tr>
<td>Chromium 7440-47-3</td>
<td>TWA 2 mg/m³</td>
<td>TWA 0.5 mg/m³</td>
<td>TWA 0.5 mg/m³</td>
<td>TWA 0.5 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
</tr>
<tr>
<td>Niobium 7440-03-1</td>
<td>STEL 10 mg/m³</td>
<td>STEL 1 mg/m³</td>
<td>TWA 5 mg/m³</td>
<td>TWA 0.5 mg/m³</td>
<td>TWA 2 mg/m³</td>
</tr>
<tr>
<td>Silver 7440-22-4</td>
<td>STEL 0.1 mg/m³</td>
<td>TWA 0.01 mg/m³</td>
<td>STEL 0.3 mg/m³</td>
<td>TWA 0.1 mg/m³</td>
<td>TWA 0.3 mg/m³</td>
</tr>
<tr>
<td>Zirconium 7440-67-7</td>
<td>TWA 5 mg/m³</td>
<td>STEL 10 mg/m³</td>
<td>TWA 5 mg/m³</td>
<td>TWA 5 mg/m³</td>
<td>TWA 5 mg/m³</td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL) No DNELs are available for this product as a whole
Predicted No Effect Concentration (PNEC) No PNECs are available for this product as a whole.

8.2. Exposure controls

Engineering Controls Avoid generation of uncontrolled particles.

Personal protective equipment

Eye/face protection When airborne particles may be present, appropriate eye protection is recommended. For example, tight-fitting goggles, foam-lined safety glasses or other protective equipment that shield the eyes from particles.

Skin and body protection Wear fire/flame resistant/retardant clothing. Wear protective gloves.

Respiratory protection When particulates/fumes/gases are generated and if exposure limits are exceeded or irritation is experienced, proper approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminate concentrations. Respiratory protection must be provided in accordance with current local regulations.

Environmental exposure controls Section 6: ACCIDENTAL RELEASE MEASURES.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
<td>Odour Odourless</td>
</tr>
<tr>
<td>Appearance</td>
<td>Powder</td>
<td>Odour threshold Not applicable</td>
</tr>
<tr>
<td>Colour</td>
<td>copper yellow</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>/ 2220 °F</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>-</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>-</td>
<td>Product not flammable in the form as distributed, flammable as finely divided particles or pieces resulting from processing of this product</td>
</tr>
</tbody>
</table>

Flammability Limit in Air

Upper flammability limit: -
Lower flammability limit: -

Vapour pressure - Not applicable
Vapour density - Not applicable
Specific Gravity 7.63 - 8.9
Water solubility Insoluble
Solubility(ies) Not applicable
Partition coefficient - Not applicable
Autoignition temperature - Not applicable
Decomposition temperature - Not applicable
Kinematic viscosity - Not applicable
Dynamic viscosity - Not applicable
Explosive properties Not applicable
Oxidising properties Not applicable

9.2. Other information

Softening point -
Molecular weight -
VOC Content (%) - Not applicable
Density -
Bulk density -

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
Not applicable

10.2. Chemical stability

Stable under normal conditions.

Explosion data
Sensitivity to Mechanical Impact: None.
Sensitivity to Static Discharge: None.

10.3. Possibility of hazardous reactions

Hazardous polymerisation
Hazardous polymerisation does not occur.

Possibility of Hazardous Reactions
None under normal processing.

10.4. Conditions to avoid

Dust formation and dust accumulation;

10.5. Incompatible materials

Dissolves in hydrofluoric acid.

10.6. Hazardous decomposition products

When product is subjected to welding, burning, melting, sawing, brazing, grinding, buffing, polishing, or other similar heat-generating processes, the following potentially hazardous airborne particles and/or fumes may be generated: Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

Inhalation: Product not classified.
Eye contact: Product not classified.
Skin Contact: Product not classified.
Ingestion: Harmful if swallowed.

Unknown Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>481 mg/kg bw</td>
<td>&gt;2000 mg/kg bw</td>
<td>&gt;5.11 mg/L</td>
</tr>
<tr>
<td>Chromium</td>
<td>&gt;3400 mg/kg bw</td>
<td>-</td>
<td>&gt;5.41 mg/L</td>
</tr>
<tr>
<td>Niobium</td>
<td>&gt;10,000 mg/kg bw</td>
<td>&gt;2000 mg/kg bw</td>
<td>-</td>
</tr>
<tr>
<td>Silver</td>
<td>2000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Zirconium</td>
<td>&gt;5000 mg/kg bw</td>
<td>-</td>
<td>&gt;4.3 mg/L</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms: May cause acute gastrointestinal effects if swallowed.

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

Acute toxicity: Harmful if swallowed.

Skin corrosion/irritation: Product not classified.

Serious eye damage/eye irritation: Product not classified.
Sensitisation
Product not classified.

Germ cell mutagenicity
Product not classified.

Carcinogenicity
Product not classified.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium</td>
<td></td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reproductive toxicity
Product not classified.

STOT - single exposure
Product not classified.

STOT - repeated exposure
Product not classified.

Aspiration hazard
Product not classified.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO.

This product as shipped is classified for aquatic chronic toxicity. This product as shipped is classified for aquatic acute toxicity.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to Micro-organisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>The 72 h EC50 values of copper chloride to Pseudokirchneriella subcapitata ranged between 30 µg/L (pH 7.02, hardness 250 mg/L CaCO3, DOC 1.95 mg/L) and 624 µg/L (pH 6.22, hardness 100 mg/L CaCO3, DOC 15.8 mg/L).</td>
<td>The 96-hr LC50 for Pimephales promelas exposed to Copper sulfate ranged from 256.2 to 38.4 µg/L with water hardness increasing from 45 to 255.7 mg/L.</td>
<td>The 24 h NOEC of copper chloride for activated sludge ranged from 0.32 to 0.64 mg of Cu/L.</td>
<td>The 48 h LC50 values for Daphnia magna exposed to copper in natural water ranged between 33.8 µg/L (pH 6.1, hardness 12.4 mg/L CaCO3, DOC 2.34 mg/L) and 792 µg/L (pH 7.35, hardness 139.7 mg/L CaCO3, DOC 22.8 mg/L).</td>
</tr>
<tr>
<td>Chromium</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Niobium</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Silver</td>
<td>The 24 h EC10 of silver nitrate to Pseudokirchneriella subcapitata was 0.41 µg of Ag/L.</td>
<td>The 96 h LC50 of silver nitrate to Pimephales promelas was 1.2 µg of Ag/L.</td>
<td>The 13.3 min NOEC of silver nitrate for nitrifying bacteria was 0.025 mg Ag/L.</td>
<td>The 48 h LC50 of silver nitrate to Daphnia magna was between 0.18 and 0.26 µg of Ag/L.</td>
</tr>
<tr>
<td>Zirconium</td>
<td>The 14 d NOEC of zirconium dichloride oxide to Chlorella vulgaris was greater than 102.5 mg of Zr/L.</td>
<td>The 96 h LL50 of zirconium to Daphnia was greater than 74.03 mg/L.</td>
<td>-</td>
<td>The 48 h EC50 of zirconium dioxide to Daphnia magna was greater than 74.03 mg of Zr/L.</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment
The PBT and vPvB criteria do not apply to inorganic substances.

### 12.6. Other adverse effects

#### Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

<table>
<thead>
<tr>
<th>Waste from residues/unused products</th>
<th>Disposal should be in accordance with applicable regional, national and local laws and regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminated packaging</td>
<td>Disposal should be in accordance with applicable regional, national and local laws and regulations.</td>
</tr>
</tbody>
</table>

#### Section 14: TRANSPORT INFORMATION

**IMDG**

14.1 UN/ID no -

14.2 Proper shipping name Regulated per IMDG, if transported in bulk or by vessel: UN/ID No. 3077 Environmentally hazardous substance, solid, n.o.s. (copper silver alloy powder)

14.3 Hazard Class 9

14.4 Packing Group III

14.5 Marine pollutant This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO

14.6 Environmental hazard -

14.7 Transport in bulk according to 8, 146, 335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33

**RID**

14.1 UN/ID no Not regulated

14.2 Proper shipping name Not regulated

14.3 Hazard Class Not regulated

14.4 Packing Group Not regulated

14.5 Environmental hazard -

14.6 Special Provisions None

**ADR**

14.1 UN/ID no Not regulated

14.2 Proper shipping name Not regulated

14.3 Hazard Class Not regulated

14.4 Packing Group Not regulated

14.5 Environmental hazard -

14.6 Special Provisions None

**ICAO (air)**

14.1 UN/ID no Not regulated

14.2 Proper shipping name Not regulated

14.3 Hazard Class Not regulated

14.4 Packing Group Not applicable

14.5 Environmental hazard -

14.6 Special Provisions None

**IATA**

14.1 UN/ID no Not regulated

14.2 Proper shipping name Not regulated

14.3 Hazard Class Not regulated

14.4 Packing Group Not regulated
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>French RG number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7440-50-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chromium</td>
<td>RG 10</td>
<td>-</td>
</tr>
<tr>
<td>7440-47-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Niobium</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7440-03-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7440-22-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zirconium</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7440-67-7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:
This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>Complies</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Not Listed</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
</tbody>
</table>

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No chemical safety assessment has been performed for this product.

Section 16: OTHER INFORMATION

Issue Date 10-Jan-2018
Revision Date 10-Jan-2018
Revision Note Updated to comply with GHS.
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Note:
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Additional information available from:
Safety data sheets and labels available at ATImetals.com

End of Safety Data Sheet