Section 1: Identification

Product identifier

Product Name • Metglas Braze Foil 1001, 1002, 1004, 1005, 1006, 1007, 1008, 1010, 1011, 1012, 1020, 1022

Synonyms • Amorphous Braze Foil

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

Recommended use • Brazing Foil

Details of the supplier of the safety data sheet

Manufacturer • Metglas Inc.
440 Allied Drive
Conway, SC 29526
United States
www.metglas.com

Telephone • 843-349-6800
(General)

Emergency telephone number

Manufacturer • 800-581-7654

Section 2: Hazard Identification

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

Classification of the substance or mixture

OSHA HCS 2012 • The Metglas Braze Foil is intended to be used as a braze filler metal in a vacuum or inert atmosphere braze furnace. Since the actual use by others is beyond our control, it is the user's responsibility to determine the suitability of the product for its use and to adopt such safety precautions as may be necessary. Since the conditions of use are not under our control, Metglas disclaims all liability with respect to the use of any material supplied by Metglas.

Skin Sensitization 1A
Respiratory Sensitization 1B
Carcinogenicity 2
Reproductive Toxicity 2
Specific Target Organ Toxicity Repeated Exposure 2
Combustible Dust

Label elements

OSHA HCS 2012

DANGER

Hazard statements • May cause an allergic skin reaction
• May cause allergy or asthma symptoms or breathing difficulties if inhaled
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
May form combustible dust concentrations in air.

Precautionary statements

Prevention • Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation wear respiratory protection.

Response • IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor.
If on skin: Wash with plenty of water.
Wash contaminated clothing before reuse.
Specific treatment, see supplemental first aid information.
If skin irritation or rash occurs: Get medical advice/attention.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

Storage/Disposal • Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards


Section 3 - Composition/Information on Ingredients

Substances

• Material does not meet the criteria of a substance.

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel, massive, ≥ 1 mm</td>
<td>CAS:7440-02-0</td>
<td>22% TO 100%</td>
<td>NDA</td>
<td>OSHA HCS 2012: Flam. Sol. 1; Comb. Dust; Resp. Sens. 1B; Skin Sens. 1A; Carc. 2 (Inhl); STOT RE 2 (Lungs / Orl, Inhl)</td>
<td>NDA</td>
</tr>
<tr>
<td>Palladium</td>
<td>CAS:7440-05-3</td>
<td>0% TO 50%</td>
<td>NDA</td>
<td>OSHA HCS 2012: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td>Chromium, massive</td>
<td>CAS:7440-47-3</td>
<td>0% TO 50%</td>
<td>NDA</td>
<td>OSHA HCS 2012: Comb. Dust</td>
<td>NDA</td>
</tr>
<tr>
<td>Silicon</td>
<td>CAS:7440-21-3</td>
<td>0% TO 5%</td>
<td>Ingestion/Oral-Rat LD50 • 3160 mg/kg</td>
<td>OSHA HCS 2012: Flam. Sol. 2</td>
<td>NDA</td>
</tr>
<tr>
<td>Molybdenum (powder)</td>
<td>CAS:7439-98-7</td>
<td>0% TO 5%</td>
<td>NDA</td>
<td>OSHA HCS 2012: Flam. Sol. 1; Comb. Dust; Repr. 2 (Orl)</td>
<td>NDA</td>
</tr>
<tr>
<td>Boron</td>
<td>CAS:7440-42-8</td>
<td>0% TO 4%</td>
<td>Ingestion/Oral-Rat LD50 • 650 mg/kg</td>
<td>OSHA HCS 2012: Acute Tox. 4 (Orl)</td>
<td>NDA</td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

Description of first aid measures
Inhalation • Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Skin • In case of contact with substance, immediately flush skin with running water for at least 20 minutes.

Eye • 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 • Rinse mouth. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed • Refer to Section 11 - Toxological Information.

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: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO2, water spray or regular foam.
In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media • No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous Combustion Products • Toxic and irritating vapors may be released if the product melts or burns in a fire.

Advice for firefighters

• Wear positive pressure self-contained breathing apparatus (SCBA).
Structural firefighters' protective clothing will only provide limited protection.
Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions • Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment. Use caution in handling as edges are very sharp.

Emergency Procedures • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Keep unauthorized personnel away. Use normal clean up procedures.

Environmental precautions

• Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures • Avoid generating dust.
Use clean nonsparking tools to collect material.
Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Pick up and place into proper storage.

Section 7 - Handling and Storage
**Precautions for safe handling**

**Handling**
- Use only with adequate ventilation. Keep away from heat, sparks, and flame. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Wear appropriate personal protective equipment. Do not breathe dust. Cut hazard. Ribbon must be handled with care and use cut resistant gloves. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage**
- Keep container closed. Store material in a dry place. Store in a facility that will protect product from physical damage and/or contamination with foreign material.

---

**Section 8 - Exposure Controls/Personal Protection**

**Control parameters**

<table>
<thead>
<tr>
<th></th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACGIH</td>
</tr>
<tr>
<td>Chromium, massive</td>
<td>TWAs 0.5 mg/m3 TWA</td>
</tr>
<tr>
<td>(7440-47-3)</td>
<td></td>
</tr>
<tr>
<td>Silicon</td>
<td>TWAs Not established</td>
</tr>
<tr>
<td>(7440-21-3)</td>
<td></td>
</tr>
<tr>
<td>Molybdenum (powder)</td>
<td>TWAs 10 mg/m3 TWA (inhaletable particulate matter); 3 mg/m3 TWA (respirable particulate matter)</td>
</tr>
<tr>
<td>(7439-98-7)</td>
<td></td>
</tr>
<tr>
<td>Nickel, massive, ≥ 1 mm</td>
<td>TWAs 1.5 mg/m3 TWA (inhaletable particulate matter)</td>
</tr>
<tr>
<td>(7440-02-0)</td>
<td></td>
</tr>
</tbody>
</table>

**Exposure controls**

**Engineering Measures/Controls**
- Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Use only appropriately classified electrical equipment. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

**Personal Protective Equipment**

**Respiratory**
- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. 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 safety goggles. Wear safety glasses.

**Skin/Body**
- Wear appropriate gloves. Wear long sleeves and/or protective coveralls. Wear cut-resistant gloves.

**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
- NIOSH = National Institute of Occupational Safety and Health
- OSHA = Occupational Safety and Health Administration
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

### Material Description

<table>
<thead>
<tr>
<th>Physical Form</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Description</td>
<td>Shiny gray metallic metal foil with no odor.</td>
</tr>
<tr>
<td>Color</td>
<td>Shiny gray.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No odor.</td>
</tr>
</tbody>
</table>

- **Color**: Shiny gray.<br>- **Odor Threshold**: No data available
- **Odor**: No odor.

### General Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>772 to 1020 °C (1421.6 to 1868 °F)</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>8.8 to 11 Water=1</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Negligible &lt; 0.1 %</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### Volatility

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>LEL</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### Environmental

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

**Reactivity**

- No dangerous reaction known under conditions of normal use.

**Chemical stability**

- Stable under normal temperatures and pressures.

**Possibility of hazardous reactions**

- Hazardous polymerization not indicated. Hazardous polymerization will not occur.

**Conditions to avoid**

- Avoid generating dust. Keep away from heat, sparks and flame.

**Incompatible materials**

- Product can be attacked by moisture and corrosive materials.

**Hazardous decomposition products**

- Toxic vapors and metallic fumes may be released if melted in a fire.

Section 11 - Toxicological Information

### Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boron (0% TO 4%)</strong></td>
</tr>
<tr>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • 650 mg/kg; Reproductive: Ingestion/Oral-Rat TDLo • 4.95 mg/kg (1-22D preg); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Effects on Embryo or Fetus:Fetal death</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nickel, massive, ≥ 1 mm (22% TO 100%)</strong></td>
</tr>
<tr>
<td>Acute Toxicity: Ingestion/Oral-Rat TDLo • 200 mg/kg; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Behavioral:Somnolence (general depressed activity); Multi-dose Toxicity: Ingestion/Oral-Mouse TDLo • 500 mg/kg 5 Day(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Related to Chronic Data:Death in the Other Multiple Dose data type field; Inhalation-Rabbit TCLo • 1 mg/m³ 6 Hour(s) 13 Week(s)-Intermittent; Lungs, Thorax, or...</td>
</tr>
</tbody>
</table>
### Potential Health Effects

#### Inhalation

**Acute (Immediate)**
- Exposure to dust may cause irritation. 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)**
- Chronic effects such as rhinitis, sinusitis, nasal septal perforations and asthma have been reported in nickel refinery and nickel plating workers. Some researchers reported pulmonary changes with fibrosis in workers handling nickel dust. Long term inhalation exposure to metallic nickel caused mucosal damage and inflammatory reaction, sometimes accompanied by slight fibrosis, was observed in rabbits after high level exposure to nickel graphite dust. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Skin

**Acute (Immediate)**
- Exposure to dust may cause mechanical irritation. Handling of sharp edges may cause cuts. May cause skin sensitization. Symptoms include redness, and skin rash.

**Chronic (Delayed)**
- No data available

#### Eye

**Acute**
- Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the

---

### Palladium (0% TO 50%)

<table>
<thead>
<tr>
<th>Classification</th>
<th>GHS Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-05-3</td>
<td>Multi-dose Toxicity: Ingestion/Oral-Rat TDL0 • 9100 mg/kg 26 Week(s)-Intermittent; Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol); Biochemical:Metabolism (intermediary);Other proteins</td>
</tr>
<tr>
<td>7439-98-7</td>
<td>Mutagen: Cytogenetic analysis • Inhalation-Rat • 19500 µg/m³; Reproductive: Ingestion/Oral-Mouse TDL0 • 448 mg/kg (multigenerations); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Effects on Embryo or Fetus:Fetal death; Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Lungs, Thorax, or Respiration:Bronchiogenic carcinoma</td>
</tr>
</tbody>
</table>

### Molybdenum (powder) (0% TO 5%)

<table>
<thead>
<tr>
<th>Classification</th>
<th>GHS Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-98-7</td>
<td>Mutagen: Cytogenetic analysis • Inhalation-Rat • 19500 µg/m³; Reproductive: Ingestion/Oral-Mouse TDL0 • 448 mg/kg (multigenerations); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Effects on Embryo or Fetus:Fetal death; Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Lungs, Thorax, or Respiration:Bronchiogenic carcinoma</td>
</tr>
</tbody>
</table>

### Silicon (0% TO 7%)

<table>
<thead>
<tr>
<th>Classification</th>
<th>GHS Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-21-3</td>
<td>Acute Toxicity: Ingestion/Oral-Rat LD50 • 3160 mg/kg; Irritation: Eye-Rabbit • 3 mg • Mild irritation</td>
</tr>
</tbody>
</table>
workplace may reduce visibility and may cause unpleasant deposits in eyes.

Chronic (Delayed)

Ingestion

Acute (Immediate)

Chronic (Delayed)

Carcinogenic Effects

• Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.
• No data available

• Repeated and prolonged exposure may cause cancer. Cobalt and cobalt compounds and nickel and nickel compounds have caused cancer in laboratory animals and should be treated as ‘possible’ carcinogens. At present there is no reliable evidence that cobalt or nickel metal has caused cancer in humans.

<table>
<thead>
<tr>
<th>Carcinogenic Effects</th>
<th>CAS</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel, massive, ≥ 1 mm</td>
<td>7440-02-0</td>
<td>Group 2B-Possible Carcinogen</td>
<td>Reasonably Anticipated to be Human Carcinogen</td>
</tr>
</tbody>
</table>

Reproductive Effects

• Repeated and prolonged exposure may cause reproductive effects.

Key to abbreviations

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

Section 12 - Ecological Information

Toxicity

• Non-mandatory section - information not compiled for this reason.

Persistence and degradability

• Non-mandatory section - information not compiled for this reason.

Bioaccumulative potential

• Non-mandatory section - information not compiled for this reason.

Mobility in Soil

• Non-mandatory section - information not compiled for this reason.

Other adverse effects

• Non-mandatory section - information not compiled for this reason.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

• Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>NDA</td>
</tr>
</tbody>
</table>

Special precautions for user

• None specified.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

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

SARA Hazard Classifications

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boron</td>
<td>7440-42-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Chromium, massive</td>
<td>7440-47-3</td>
<td>Yes</td>
</tr>
<tr>
<td>Molybdenum (powder)</td>
<td>7439-98-7</td>
<td>Yes</td>
</tr>
<tr>
<td>Nickel, massive, ≥ 1 mm</td>
<td>7440-02-0</td>
<td>Yes</td>
</tr>
<tr>
<td>Palladium</td>
<td>7440-05-3</td>
<td>Yes</td>
</tr>
<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>Yes</td>
</tr>
</tbody>
</table>

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

- Palladium                   7440-05-3 Not Listed
- Chromium, massive           7440-47-3 Not Listed
- Molybdenum (powder)         7439-98-7 Not Listed
- Nickel, massive, ≥ 1 mm     7440-02-0 Not Listed
- Silicon                     7440-21-3 Not Listed
- Boron                       7440-42-8 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

- Palladium                   7440-05-3 Not Listed
- Chromium, massive           7440-47-3 Not Listed
- Molybdenum (powder)         7439-98-7 Not Listed
- Nickel, massive, ≥ 1 mm     7440-02-0 Not Listed
- Silicon                     7440-21-3 Not Listed
- Boron                       7440-42-8 Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

- Palladium                   7440-05-3 Not Listed
- Chromium, massive           7440-47-3 Not Listed
- Molybdenum (powder)         7439-98-7 Not Listed
- Nickel, massive, ≥ 1 mm     7440-02-0 Not Listed
- Silicon                     7440-21-3 Not Listed
- Boron                       7440-42-8 Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- Palladium                   7440-05-3 Not Listed
  5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
- Chromium, massive           7440-47-3 Not Listed
- Molybdenum (powder)         7439-98-7 Not Listed
- Nickel, massive, ≥ 1 mm     7440-02-0 Not Listed

- Palladium                   7440-05-3 Not Listed
  100 lb final RQ (no reporting of releases of this hazardous substance is required if the
\begin{itemize}
  \item Silicon
  \item Boron
  \begin{center}
    \textbf{U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities}
  \end{center}
  \item Palladium
  \item Chromium, massive
  \item Molybdenum (powder)
  \item Nickel, massive, ≥ 1 mm
  \item Silicon
  \item Boron

  \begin{center}
    \textbf{U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs}
  \end{center}
  \item Palladium
  \item Chromium, massive
  \item Molybdenum (powder)
  \item Nickel, massive, ≥ 1 mm
  \item Silicon
  \item Boron

  \begin{center}
    \textbf{U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs}
  \end{center}
  \item Palladium
  \item Chromium, massive
  \item Molybdenum (powder)
  \item Nickel, massive, ≥ 1 mm
  \item Silicon
  \item Boron

  \begin{center}
    \textbf{United States - California}
  \end{center}

  \begin{center}
    \textbf{Environment}
  \end{center}
  \begin{center}
    \textbf{U.S. - California - Proposition 65 - Carcinogens List}
  \end{center}
  \item Palladium
  \item Chromium, massive
  \item Molybdenum (powder)
  \item Nickel, massive, ≥ 1 mm
  \item Silicon
  \item Boron

  \begin{center}
    \textbf{U.S. - California - Proposition 65 - Developmental Toxicity}
  \end{center}
  \item Palladium
  \item Chromium, massive
  \item Molybdenum (powder)
  \item Nickel, massive, ≥ 1 mm
  \item Silicon
  \item Boron

\end{itemize}

\textit{diameter of the pieces of the solid metal released is ≥100 μm}; 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μm)
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

- Palladium 7440-05-3 Not Listed
- Chromium, massive 7440-47-3 Not Listed
- Molybdenum (powder) 7439-98-7 Not Listed
- Nickel, massive, ≥ 1 mm 7440-02-0 Not Listed
- Silicon 7440-21-3 Not Listed
- Boron 7440-42-8 Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

- Palladium 7440-05-3 Not Listed
- Chromium, massive 7440-47-3 Not Listed
- Molybdenum (powder) 7439-98-7 Not Listed
- Nickel, massive, ≥ 1 mm 7440-02-0 Not Listed
- Silicon 7440-21-3 Not Listed
- Boron 7440-42-8 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

- Palladium 7440-05-3 Not Listed
- Chromium, massive 7440-47-3 Not Listed
- Molybdenum (powder) 7439-98-7 Not Listed
- Nickel, massive, ≥ 1 mm 7440-02-0 Not Listed
- Silicon 7440-21-3 Not Listed
- Boron 7440-42-8 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

- Palladium 7440-05-3 Not Listed
- Chromium, massive 7440-47-3 Not Listed
- Molybdenum (powder) 7439-98-7 Not Listed
- Nickel, massive, ≥ 1 mm 7440-02-0 Not Listed
- Silicon 7440-21-3 Not Listed
- Boron 7440-42-8 Not Listed

Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Revision Date 31/May/2017
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Preparation Date 06/February/2013
Disclaimer/Statement of Liability All information appearing herein concerning Metglas products are based on data believed to be accurate and reliable. The information is provided as guidance for safe transportation, handling, use, processing, storage, disposal and release. It is not considered a warranty or quality specification. Since the actual use is determined by the user, it is the user's responsibility to determine the suitability of the product for its use and to adopt appropriate safety precautions as necessary.

Key to abbreviations

NDA = No Data Available