

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** SilTron 15 QuickCoil

**Other means of identification**

**SDS number** WC049

**Recommended use** Welding/ Brazing/ Soldering.

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer/Supplier** Worthington Industries Incorporated

**Address** 200 Old Wilson Bridge Road  
Columbus, OH 43085  
United States

**E-mail address:** cylinders@worthingtonindustries.com

**Telephone number:** 866-928-2657

**CHEMTREC - 24 HOURS:** Within US and Canada 800-424-9300  
Outside US and Canada +1 703-741-5970 (collect calls accepted)

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**OSHA defined hazards** Not classified.

### Label elements

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** The mixture does not meet the criteria for classification.

### Precautionary statement

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** Molten material will produce thermal burns.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name | CAS number | %        |
|---------------|------------|----------|
| Copper        | 7440-50-8  | 1 - 95   |
| Zinc          | 7440-66-6  | 0 - 30   |
| Silver        | 7440-22-4  | 5 - 20   |
| Phosphorus    | 7723-14-0  | 0.1 - 10 |
| Tin           | 7440-31-5  | 0 - 10   |
| Silicon       | 7440-21-3  | 0 - 5    |

**Composition comments** All concentrations are in percent by weight.

## 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | In case of inhalation of dust or fumes: Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.  |
| <b>Skin contact</b>   | Contact with dust: Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get medical attention if irritation develops and persists.  |
| <b>Eye contact</b>  | Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. Contact with dust: Remove any contact lenses.  |
| <b>Ingestion</b>  | Rinse mouth thoroughly if dust is ingested. Get medical attention if symptoms occur.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms may include coughing, difficulty breathing and shortness of breath. Overexposure to copper fumes may cause fever, chills, congestion and headaches. Contact with molten material may cause thermal burns. |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically. Symptoms may be delayed. Exposure may aggravate pre-existing respiratory disorders.   |
| <b>General information</b>  | Show this safety data sheet to the doctor in attendance.   |

## 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Extinguish with foam, carbon dioxide or dry powder.   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water or halogenated extinguishing media.  |
| <b>Specific hazards arising from the chemical</b>                    | Fire or high temperatures create: Metal oxides.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                         |
| <b>Fire fighting equipment/instructions</b>                          | Use standard firefighting procedures and consider the hazards of other involved materials.                            |
| <b>General fire hazards</b>  | Solid metal is not flammable; however, finely divided metallic dust or powder may form an explosive mixture with air. |

## 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear protective clothing as described in Section 8 of this SDS.  |
| <b>Methods and materials for containment and cleaning up</b>               | Massive, solid metal: Pick up and arrange disposal without creating dust.<br>Dust: Collect dust or particulates using a vacuum cleaner with a HEPA filter. Use approved industrial vacuum cleaner for removal. Avoid generation and spreading of dust.<br>Recover and recycle, if practical. Keep out of water supplies and sewers. |
| <b>Environmental precautions</b>   | Prevent further leakage or spillage if safe to do so. Do not contaminate water.<br>If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).   |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Wear appropriate personal protective equipment (See Section 8). Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and fumes. Avoid contact with eyes, skin, and clothing. Do not eat, drink or smoke when using the product. Wash thoroughly after handling.<br><br>Any surface that comes in contact with molten metal must be preheated or specially coated and rust free. Inadvertent contaminants to product such as moisture, ice, snow, grease, or oil can cause an explosion when charged to a molten metal bath or metal furnace (preheating metal will remove moisture from product). |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of reach of children. Store away from incompatible materials (See Section 10).  |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                 | Type | Value                  | Form                 |
|----------------------------|------|------------------------|----------------------|
| Copper (CAS 7440-50-8)     | PEL  | 1 mg/m <sup>3</sup>    | Dust and mist.       |
|                            |      | 0.1 mg/m <sup>3</sup>  | Fume.                |
| Phosphorus (CAS 7723-14-0) | PEL  | 0.1 mg/m <sup>3</sup>  |                      |
| Silicon (CAS 7440-21-3)    | PEL  | 5 mg/m <sup>3</sup>    | Respirable fraction. |
|                            |      | 15 mg/m <sup>3</sup>   | Total dust.          |
| Silver (CAS 7440-22-4)     | PEL  | 0.01 mg/m <sup>3</sup> |                      |
| Tin (CAS 7440-31-5)        | PEL  | 2 mg/m <sup>3</sup>    |                      |

#### US. ACGIH Threshold Limit Values

| Components             | Type | Value                 | Form           |
|------------------------|------|-----------------------|----------------|
| Copper (CAS 7440-50-8) | TWA  | 1 mg/m <sup>3</sup>   | Dust and mist. |
|                        |      | 0.2 mg/m <sup>3</sup> | Fume.          |
| Silver (CAS 7440-22-4) | TWA  | 0.1 mg/m <sup>3</sup> | Dust and fume. |
| Tin (CAS 7440-31-5)    | TWA  | 2 mg/m <sup>3</sup>   |                |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Components              | Type | Value                  | Form           |
|-------------------------|------|------------------------|----------------|
| Copper (CAS 7440-50-8)  | TWA  | 1 mg/m <sup>3</sup>    | Dust and mist. |
|                         |      | 0.1 mg/m <sup>3</sup>  |                |
| Silicon (CAS 7440-21-3) | TWA  | 5 mg/m <sup>3</sup>    | Respirable.    |
|                         |      | 10 mg/m <sup>3</sup>   | Total          |
| Silver (CAS 7440-22-4)  | TWA  | 0.01 mg/m <sup>3</sup> | Dust.          |
| Tin (CAS 7440-31-5)     | TWA  | 2 mg/m <sup>3</sup>    |                |

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

#### Exposure guidelines

No exposure standards allocated.

#### Appropriate engineering controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Keep melting/soldering temperatures as low as possible to minimize the generation of fume. Shower, hand and eye washing facilities near the workplace are recommended.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear a face shield when working with molten material. Wear safety glasses with side shields (or goggles).

##### Skin protection

###### Hand protection

Wear protective gloves (i.e. latex, nitrile, neoprene).

###### Other

Chemical resistant clothing is recommended.

##### Respiratory protection

Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the OEL. In a confined space a supplied respirator may be required. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

##### Thermal hazards

Heat resistant/insulated gloves and clothing are recommended when working with molten material.

#### General hygiene considerations

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.

## 9. Physical and chemical properties

### Appearance

**Physical state** Solid.

|  |  |
|--|--|
| <b>Form</b>                                    | Metallic wire, rod or strip.   |
| <b>Color</b>                                   | Not available.   |
| <b>Odor</b>                                    | Odorless.  |
| <b>Odor threshold</b>                          | Not applicable.  |
| <b>pH</b>                                      | Not applicable.  |
| <b>Melting point/freezing point</b>            | 1100 - 1500 °F (593.33 - 815.56 °C)  |
| <b>Initial boiling point and boiling range</b> | Not determined.  |
| <b>Flash point</b>                             | Not applicable.  |
| <b>Evaporation rate</b>                        | Not applicable.  |
| <b>Flammability (solid, gas)</b>               | Solid: Non flammable. Fine particles may form explosive mixtures with air. |

#### Upper/lower flammability or explosive limits

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Flammability limit - lower (%)</b> | Not applicable. |
| <b>Flammability limit - upper (%)</b> | Not applicable. |
| <b>Explosive limit - lower (%)</b>    | Not applicable. |
| <b>Explosive limit - upper (%)</b>    | Not applicable. |

|                         |                    |
|-------------------------|--------------------|
| <b>Vapor pressure</b>   | Not applicable.    |
| <b>Vapor density</b>    | Not applicable.    |
| <b>Relative density</b> | 7.4 - 8.54 (H2O=1) |

#### Solubility(ies)

|                           |                     |
|---------------------------|---------------------|
| <b>Solubility (water)</b> | Insoluble in water. |
|---------------------------|---------------------|

|  |                |
|--|----------------|
| <b>Partition coefficient (n-octanol/water)</b> | Not available. |
|--|----------------|

|                                  |                |
|----------------------------------|----------------|
| <b>Auto-ignition temperature</b> | Not available. |
|----------------------------------|----------------|

|                                  |                |
|----------------------------------|----------------|
| <b>Decomposition temperature</b> | Not available. |
|----------------------------------|----------------|

|                  |                 |
|------------------|-----------------|
| <b>Viscosity</b> | Not applicable. |
|------------------|-----------------|

#### Other information

|                             |                |
|-----------------------------|----------------|
| <b>Explosive properties</b> | Not explosive. |
|-----------------------------|----------------|

|                             |                |
|-----------------------------|----------------|
| <b>Oxidizing properties</b> | Not oxidizing. |
|-----------------------------|----------------|

## 10. Stability and reactivity

|                   |  |
|-------------------|--|
| <b>Reactivity</b> | The product is non-reactive under normal conditions of use, storage and transport. |
|-------------------|--|

|                           |   |
|---------------------------|---|
| <b>Chemical stability</b> | Material is stable under normal conditions. |
|---------------------------|---|

|   |  |
|---|--|
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur. |
|---|--|

|                            |   |
|----------------------------|---|
| <b>Conditions to avoid</b> | Contact with incompatible materials. Avoid molten metal contact with water. |
|----------------------------|---|

|                               |  |
|-------------------------------|--|
| <b>Incompatible materials</b> | Strong acids. Strong bases. Oxidizing agents. Magnesium. Ammonia. Acetylene. Ammonium nitrate. Hydrogen sulfide. Chlorinated rubber. |
|-------------------------------|--|

|   |   |
|---|---|
| <b>Hazardous decomposition products</b> | Toxic metal oxides are emitted when heated above the melting point. |
|---|---|

## 11. Toxicological information

### Information on likely routes of exposure

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the mucous membranes and respiratory tract. Lung damage and possible pulmonary edema can result from dust exposure. Inhalation of fumes may cause a flu-like illness called metal fume fever. |
|-------------------|---|

|                     |   |
|---------------------|---|
| <b>Skin contact</b> | Dust may irritate skin. Contact with molten material may cause thermal burns. |
|---------------------|---|

|                    |  |
|--------------------|--|
| <b>Eye contact</b> | Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye. |
|--------------------|--|

|                  |  |
|------------------|--|
| <b>Ingestion</b> | Ingestion of dusts generated during working operations may cause nausea and vomiting. Copper poisoning can result in hemolytic anemia and kidney, liver and spleen damage. |
|------------------|--|

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

Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms may include coughing, difficulty breathing and shortness of breath. Overexposure to copper fumes may cause fever, chills, congestion and headaches. Contact with molten material may cause thermal burns.

**Information on toxicological effects**

**Acute toxicity**

High concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of metal fume fever. When heated, the vapors/fumes given off may cause respiratory tract irritation. Overexposure of Tin can cause irritation of the eyes, skin, mucous membranes, and respiratory system. Acute overexposure to Copper dust/fume can cause irritation of the eyes, nose, throat, and skin and under severe fume overexposure can cause metal fume fever with flu-like symptoms such as sweet metal taste, dry throat, coughing, fever and chills, tight chest, dyspnea, headache, blurred vision, back pain, nausea, vomiting, fatigue. Symptoms usually disappear within 24 hours. Copper may cause skin and hair discoloration. Inhalation of copper dusts may change the gums and mucous lining of the mouth which is generally attributable to localized tissue effect rather than general toxicity.

| Components  | Species  | Test Results |
|---|--|--------------|
| Silicon (CAS 7440-21-3)   |  |              |
| <u>Acute</u>  |  |              |
| <b>Oral</b>   |  |              |
| LD50  | Rat  | 3160 mg/kg   |
| Silver (CAS 7440-22-4)  |  |              |
| <u>Acute</u>  |  |              |
| <b>Dermal</b>   |  |              |
| LD50  | Rat  | > 2000       |
| <b>Oral</b>   |  |              |
| LD50  | Rat  | > 5000       |
| Zinc (CAS 7440-66-6)  |  |              |
| <u>Acute</u>  |  |              |
| <b>Inhalation</b>   |  |              |
| LC50  | Rat  | > 5410 mg/m3 |
| <b>Skin corrosion/irritation</b>                                      | Dust may irritate skin.  |              |
| <b>Serious eye damage/eye irritation</b>                              | Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye.           |              |
| <b>Respiratory or skin sensitization</b>                              |  |              |
| <b>Respiratory sensitization</b>                                      | Not classified.  |              |
| <b>Skin sensitization</b>   | Not classified.  |              |
| <b>Germ cell mutagenicity</b>   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |              |
| <b>Carcinogenicity</b>  | Not classified.  |              |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         |  |              |
| Not listed.   |  |              |
| <b>NTP Report on Carcinogens</b>                                      |  |              |
| Not listed.   |  |              |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b> |  |              |
| Not regulated.  |  |              |
| <b>Reproductive toxicity</b>  | This product is not expected to cause reproductive or developmental effects.                                     |              |
| <b>Specific target organ toxicity - single exposure</b>               | Not classified.  |              |
| <b>Specific target organ toxicity - repeated exposure</b>             | Not classified.  |              |
| <b>Aspiration hazard</b>  | Not relevant, due to the form of the product.  |              |
| <b>Chronic effects</b>  | Prolonged and repeated overexposure to dust and fumes can lead to benign pneumoconiosis (stannosis).             |              |
| <b>Further information</b>  | No other specific acute or chronic health impact noted.  |              |

## 12. Ecological information

**Ecotoxicity** Alloys in massive forms present a limited hazard for the environment.

| Components                 |      | Species  | Test Results                 |
|----------------------------|------|--|------------------------------|
| Copper (CAS 7440-50-8)     |      |  |                              |
| <b>Aquatic</b>             |      |  |                              |
| <i>Chronic</i>             |      |  |                              |
| Other                      | NOEC | Juga plicifera                                       | 6 µg/l                       |
| Phosphorus (CAS 7723-14-0) |      |  |                              |
| <b>Aquatic</b>             |      |  |                              |
| Crustacea                  | EC50 | Water flea (Daphnia magna)                           | 0.025 - 0.037 mg/l, 48 hours |
| Fish                       | LC50 | Bluegill (Lepomis macrochirus)                       | 0.002 - 0.006 mg/l, 96 hours |
|                            |      |  | 0.001 - 0.004 mg/l, 96 hours |
| Zinc (CAS 7440-66-6)       |      |  |                              |
| <b>Aquatic</b>             |      |  |                              |
| Fish                       | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) | 0.24 mg/l, 96 hours          |

**Persistence and degradability** The product contains inorganic compounds which are not biodegradable.

**Bioaccumulative potential** No data available.

**Mobility in soil** Alloys in massive forms are not mobile in the environment.

**Other adverse effects** None expected.

## 13. Disposal considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

**Local disposal regulations** Dispose of in accordance with local regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Scrapped material should be sent for refining to recover precious metal content. Solid metal and alloys in the form of particles may be reactive. Its hazardous characteristics, including fire and explosion, should be determined prior to disposal.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

|                            |         |
|----------------------------|---------|
| Copper (CAS 7440-50-8)     | Listed. |
| Phosphorus (CAS 7723-14-0) | Listed. |
| Silver (CAS 7440-22-4)     | Listed. |
| Zinc (CAS 7440-66-6)       | Listed. |

### SARA 304 Emergency release notification

|                            |       |
|----------------------------|-------|
| Phosphorus (CAS 7723-14-0) | 1 LBS |
|----------------------------|-------|

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

| Chemical name | CAS number | Reportable quantity (pounds) | Threshold planning quantity (pounds) | Threshold planning quantity, lower value (pounds) | Threshold planning quantity, upper value (pounds) |
|---------------|------------|------------------------------|--------------------------------------|---|---|
| Phosphorus    | 7723-14-0  | 1                            | 100                                  |   |   |

**SARA 311/312 Hazardous chemical** No**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| Copper        | 7440-50-8  | 1 - 95   |
| Phosphorus    | 7723-14-0  | 0.1 - 10 |
| Silver        | 7440-22-4  | 5 - 20   |
| Zinc          | 7440-66-6  | 0 - 30   |

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Phosphorus (CAS 7723-14-0)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Phosphorus (CAS 7723-14-0) 80 %WT

**DEA Exempt Chemical Mixtures Code Number**

Phosphorus (CAS 7723-14-0) 6795

**US state regulations****US. Massachusetts RTK - Substance List**

Copper (CAS 7440-50-8)  
 Phosphorus (CAS 7723-14-0)  
 Silicon (CAS 7440-21-3)  
 Silver (CAS 7440-22-4)  
 Tin (CAS 7440-31-5)  
 Zinc (CAS 7440-66-6)

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

Copper (CAS 7440-50-8)  
 Phosphorus (CAS 7723-14-0)  
 Silicon (CAS 7440-21-3)  
 Silver (CAS 7440-22-4)  
 Tin (CAS 7440-31-5)  
 Zinc (CAS 7440-66-6)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Copper (CAS 7440-50-8)  
 Phosphorus (CAS 7723-14-0)  
 Silicon (CAS 7440-21-3)  
 Silver (CAS 7440-22-4)  
 Tin (CAS 7440-31-5)  
 Zinc (CAS 7440-66-6)

**US. Rhode Island RTK**

Copper (CAS 7440-50-8)  
 Phosphorus (CAS 7723-14-0)  
 Silicon (CAS 7440-21-3)  
 Silver (CAS 7440-22-4)  
 Tin (CAS 7440-31-5)  
 Zinc (CAS 7440-66-6)

## California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Copper (CAS 7440-50-8)  
Phosphorus (CAS 7723-14-0)  
Silver (CAS 7440-22-4)  
Tin (CAS 7440-31-5)  
Zinc (CAS 7440-66-6)

### International Inventories

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

|                     |   |
|---------------------|---|
| Issue date          | 19-October-2016   |
| Revision date       | 27-September-2018   |
| Version #           | 02  |
| Further information | The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. |
| HMIS® ratings       | Health: 0<br>Flammability: 0<br>Physical hazard: 0  |

### NFPA ratings



### Disclaimer

All information in this Safety Data Sheet is believed to be accurate and reliable. However, no guarantee or warranty of any kind is made with regard to the accuracy of information or the suitability of the recommendations contained herein. It is the user's responsibility to assess the safety and toxicity of this product under their own conditions of use and to comply with all applicable laws and regulations.

**This SDS contains revisions in the following section(s):** 2, 3, 4, 7, 8, 11, 12, 13, 15, 16.