## J.M. Power Aggregates LTD.

#### **MATERIAL SAFETY DATA SHEET**

#### 1. Product and Company Identification

**Product Name** 

Volcanic Lava Rock

CAS#

Mixture

Product use

Sealant

Manufacturer

J.M. Power Aggregates Limited 1003 Stewartville Road Amprior, ON K7S 3G8 CA

Phone: 613-623-7877 Fax: 613-623-3530

Email: info@jmpoweraggregates.ca

#### 2. Hazards Identification

**Emergency overview** 

Product dust may be irritating to eyes, skin and respiratory system.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Eyes

May cause abrasive deposits in eyes of a transient nature.

Skin

Mechanical rubbing may increase skin irritation.

ACGIH - Threshold Limit Values - Skin Notations

Beryllium, elemental Mercury, elemental 7440-41-7

Skin - potential significant contribution to overall exposure by the cutaneous route

Thallium, elemental

7439-97-6 7440-28-0 Skin - potential significant contribution to overall exposure by the cutaneous route Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations

Mercury, elemental

7439-97-6

Potential for dermal absorption

Inhalation

Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion

May cause stomach distress, nausea or vomiting.

Target organs

Respiratory system.

Chronic effects

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms

Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vómiting.

**OSHA Regulatory Status** 

This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects

See section 12.

## 3. Composition / Information on Ingredients

| Ingredient(s)         | CAS#       | Percent |
|-----------------------|------------|---------|
| Aluminum, elemental   | 7429-90-5  | < 0.1   |
| Antimony, elemental   | 7440-36-0  | < 0.1   |
| Arsenic, elemental    | 7440-38-2  | < 0.1   |
| Barium                | 7440-39-3  | < 0.1   |
| Beryllium, elemental  | 7440-41-7  | < 0.1   |
| Boron                 | 7440-42-8  | < 0.1   |
| Cadmium, elemental    | 7440-43-9  | < 0.1   |
| Chloride              | 16887-00-6 | < 0.1   |
| Chromium, elemental   | 7440-47-3  | < 0.1   |
| Copper, elemental     | 7440-50-8  | < 0.1   |
| Iron                  | 7439-89-6  | < 0.1   |
| Lead, elemental       | 7439-92-1  | < 0.1   |
| Manganese, elemental  | 7439-96-5  | < 0.1   |
| Mercury, elemental    | 7439-97-6  | < 0.1   |
| Molybdenum, elemental | 7439-98-7  | < 0.1   |
| Nickel, elemental     | 7440-02-0  | < 0.1   |
| Nitrogen              | 7727-37-9  | < 0.1   |
| Selenium, elemental   | 7782-49-2  | < 0.1   |
| Silver, elemental     | 7440-22-4  | < 0.1   |
| Sulfate               | 14808-79-8 | < 0.1   |
| Thallium, elemental   | 7440-28-0  | < 0.1   |
| Zinc, elemental       | 7440-66-6  | < 0.1   |

#### Composition comments

Non-hazardous by WHMIS/OSHA criteria

#### 4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce

risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

Symptoms may be delayed.

Notes to physician

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

#### 5. Fire Fighting Measures

Flammable properties

Extinguishing media

Not flammable by WHMIS/OSHA criteria.

Suitable extinguishing media

Material will not burn.

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

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<sup>\*\*</sup> Contains trace amounts of aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chloride, chromium, copper, iron, lead, manganese, mercury, molybdenum, nickel, nitrogen, selenium, silver, sulfate, thallium, zinc.

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon.

**Explosion data** 

Sensitivity to mechanical impact Not available Sensitivity to static discharge

Not available

| 6  | Accid | ental  | Release  | <b>Measures</b> |
|----|-------|--------|----------|-----------------|
| υ. | Acciu | CIILAI | 1/GIGGSG | INICABUICS      |

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** 

Methods for containment

No special environmental precautions required.

If sweeping of a contaminated area is necessary use a dust suppressant agent which

does not react with the product.

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum Methods for cleaning up

to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services

and supplier for advice.

#### 7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Avoid breathing dust.

Keep out of reach of children. Storage

Store in a closed container away from incompatible materials.

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| 8. Expos             | sure Controls / Personal Protection |
|----------------------|-------------------------------------|
| Exposure limits      |                                     |
| Ingredient(s)        | Exposure Limits                     |
| Aluminum, elemental  | ACGIH-TLV                           |
|                      | TWA: 1 mg/m3                        |
|                      | OSHA-PEL                            |
|                      | TWA: 15 mg/m3                       |
| Antimony, elemental  | ACGIH-TLV                           |
|                      | TWA: 0.5 mg/m3                      |
|                      | OSHA-PEL                            |
|                      | TWA: 0.5 mg/m3                      |
| Arsenic, elemental   | ACGIH-TLV                           |
|                      | TWA: 0.01 mg/m3                     |
|                      | OSHA-PEL                            |
|                      | Not established                     |
| Barium               | ACGIH-TLV                           |
|                      | TWA: 0.5 mg/m3                      |
|                      | OSHA-PEL                            |
|                      | Not established                     |
| Beryllium, elemental | ACGIH-TLV                           |
|                      | TWA: 0.0001 mg/m3                   |
|                      | STEL: 0.01 mg/m3                    |
|                      | OSHA-PEL                            |
|                      | Not established                     |
| Boron                | ACGIH-TLV                           |
|                      | Not established                     |
|                      | OSHA-PEL                            |
|                      | Not established                     |
| Cadmium, elemental   | ACGIH-TLV                           |
|                      | TWA: 0.01 mg/m3                     |
|                      | OSHA-PEL                            |
|                      | TWA: 0.1 mg/m3                      |
|                      | Ceiling: 0.3 mg/m3                  |
| Chloride             | ACGIH-TLV                           |
|                      | Not established                     |
|                      | OSHA-PEL                            |
|                      | Not established                     |
| Chromium, elemental  | ACGIH-TLV                           |
|                      | TWA: 0.5 mg/m3                      |
|                      | OSHA-PEL                            |
|                      | TWA: 1 mg/m3                        |
| Copper, elemental    | ACGIH-TLV                           |
|                      | TWA: 0.2 mg/m3                      |
|                      | OSHA-PEL                            |
|                      | TWA: 0.1 mg/m3                      |
|                      |                                     |

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| ACGIH-TLV  Not established  OSHA-PEL |
|--------------------------------------|
|                                      |
| OSHA-PEL                             |
|                                      |
| Not established                      |
| ACGIH-TLV                            |
| TWA: 0.05 mg/m3                      |
| OSHA-PEL                             |
| TWA: 0.05 mg/m3                      |
| ACGIH-TLV                            |
| TWA: 0.2 mg/m3                       |
| OSHA-PEL                             |
| Ceiling: 5 mg/m3                     |
| ACGIH-TLV                            |
| TWA: 0.025 mg/m3                     |
| OSHA-PEL                             |
| Ceiling: 0.1 mg/m3                   |
| ACGIH-TLV                            |
| TWA: 10 mg/m3                        |
| OSHA-PEL                             |
| TWA: 5 mg/m3                         |
| ACGIH-TLV                            |
| TWA: 1.5 mg/m3                       |
| OSHA-PEL                             |
| TVVA: 1 mg/m3                        |
| ACGIH-TLV                            |
| Not established                      |
| OSHA-PEL                             |
| Not established                      |
| ACGIH-TLV                            |
| TWA: 0.2 mg/m3                       |
| OSHA-PEL                             |
| TWA: 0.2 mg/m3                       |
| ACGIH-TLV                            |
| TWA: 0.1 mg/m3                       |
| OSHA-PEL                             |
| TWA: 0.01 mg/m3                      |
| ACGIH-TLV                            |
| Not established                      |
| OSHA-PEL                             |
| Not established                      |
| ACGIH-TLV                            |
| TWA: 0.02 mg/m3                      |
| OSHA-PEL                             |
| Not established                      |
| ACGIH-TLV                            |
| Not established                      |
|                                      |
| OSHA-PEL                             |
|                                      |

Engineering controls Keep formation of dusts, particulates and fumes to a minimum.

Where dust may be generated, provide exhaust ventilation to keep dust levels below

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields.

Hand protection

Impervious gloves. Confirm with reputable supplier first.

Skin and body protection

As required by employer code.

Respiratory protection

ACGIH recommends a TLV of 10 mg/m3 for nuisance dust.

Use dust respirator where airborne dust levels exceed the occupational exposure limit. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

When using do not eat or drink.

Washing with soap and water after use is recommended as good hygienic practice to

prevent possible eye irritation from hand contact.

#### 9. Physical and Chemical Properties

Porous lava Appearance Color grey / Black to Red granular Solid. Form Odor None Not available Odor threshold Solid Physical state Not available Hq Not available Melting point Not available Freezing point Not available Boiling point Not available Pour point Not available Evaporation rate Not available Flash point Not available Auto-ignition temperature Not applicable Flammability limits in air, lower, % by volume Flammability limits in air, upper, % Not applicable by volume Not available Vapor pressure Not available Vapor density Not available Specific gravity Not available Octanol/water coefficient Not available Viscosity

#### 10. Stability and Reactivity

Reactivity None known.

Percent volatile

Hazardous polymerization does not occur. Possibility of hazardous reactions

Stable under recommended storage conditions.

Chemical stability

In dust form, this product is explosive in presence of open flames, sparks and static Conditions to avoid

discharge.

Not available

None known. Incompatible materials

Hazardous decomposition products May include and are not limited to: Oxides of carbon.

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## 11. Toxicological Information

|                           | 0             |
|---------------------------|---------------|
| Component analysis - LC50 |               |
| Ingredient(s)             | LC50          |
| Aluminum, elemental       | Not available |
| Antimony, elemental       | Not available |
| Arsenic, elemental        | Not available |
| Barium                    | Not available |
| Beryllium, elemental      | Not available |
| Boron                     | Not available |
| Cadmium, elemental        | Not available |
| Chloride                  | Not available |
| Chromium, elemental       | Not available |
| Copper, elemental         | Not available |
| Iron                      | Not available |
| Lead, elemental           | Not available |
| Manganese, elemental      | Not available |
| Mercury, elemental        | Not available |
| Molybdenum, elemental     | Not available |
| Nickel, elemental         | Not available |
| Nitrogen                  | Not available |
| Selenium, elemental       | Not available |
| Silver, elemental         | Not available |
| Sulfate                   | Not available |
| Thallium, elemental       | Not available |
| Zinc, elemental           | Not available |
|                           |               |

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#### Component analysis - Oral LD50

| Ingredient(s)         | LD50                             |
|-----------------------|----------------------------------|
| Aluminum, elemental   | Not available                    |
| Antimony, elemental   | 7000 mg/kg rat                   |
| Arsenic, elemental    | 763 mg/kg rat                    |
| Barium                | Not available                    |
| Beryllium, elemental  | Not available                    |
| Boron                 | 350 mg/kg rat                    |
| Cadmium, elemental    | 2330 mg/kg rat                   |
| Chloride              | Not available                    |
| Chromium, elemental   | Not available                    |
| Copper, elemental     | Not available                    |
| Iron                  | 984 mg/kg rat                    |
| Lead, elemental       | Not available                    |
| Manganese, elemental  | 1715 mg/kg mouse; 9000 mg/kg rat |
| Mercury, elemental    | Not available                    |
| Molybdenum, elemental | Not available                    |
| Nickel, elemental     | Not available                    |
| Nitrogen              | Not available                    |
| Selenium, elemental   | Not available                    |
| Silver, elemental     | 2000 mg/kg rat                   |
| Sulfate               | Not available                    |
| Thallium, elemental   | Not available                    |
| Zinc, elemental       | Not available                    |

#### Effects of acute exposure

Eye

May cause abrasive deposits in eyes of a transient nature.

Skin

Mechanical rubbing may increase skin irritation.

#### ACGIH - Threshold Limit Values - Skin Notations

Beryllium, elemental 7440-41-7 Mercury, elemental 7439-97-6 Thallium, elemental 7440-28-0 Skin - potential significant contribution to overall exposure by the cutaneous route Skin - potential significant contribution to overall exposure by the cutaneous route Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations

Mercury, elemental

7439-97-6

Potential for dermal absorption

Inhalation Dusts of this prod

Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion

May cause stomach distress, nausea or vomiting.

Sensitization Chronic effects Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria.

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|                             |                      | ••••  |
|-----------------------------|----------------------|---|
| ACGIH - Threshold Limit V   | alues - Carcinogens  |   |
| Aluminum, elemental         | 7429-90-5            | A4 - Not Classifiable as a Human Carcinogen   |
| Arsenic, elemental          | 7440-38-2            | A1 - Confirmed Human Carcinogen   |
| Barium                      | 7440-39-3            | A4 - Not Classifiable as a Human Carcinogen   |
| Beryllium, elemental        | 7440-41-7            | A1 - Confirmed Human Carcinogen   |
| Cadmium, elemental          | 7440-43-9            | A2 - Suspected Human Carcinogen   |
| Chromium, elemental         | 7440-47-3            | A4 - Not Classifiable as a Human Carcinogen   |
| Lead, elemental             | 7439-92-1            | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans   |
| Mercury, elemental          | 7439-97-6            | A4 - Not Classifiable as a Human Carcinogen   |
| Nickel, elemental           | 7440-02-0            | A5 - Not Suspected as a Human Carcinogen  |
| IARC - Group 1 (Carcinoge   | nic to Humans)       |   |
| Arsenic, elemental          | 7440-38-2            | Monograph 100C [in preparation]; Monograph 84 [2004] (in drinking water);<br>Supplement 7 [1987]; Monograph 23 [1980] |
| Beryllium, elemental        | 7440-41-7            | Monograph 100C [in preparation]; Monograph 58 [1993]; Supplement 7 [1987]   |
| Cadmium, elemental          | 7440-43-9            | Monograph 100C [in preparation]; Monograph 58 [1993]; Supplement 7 [1987]   |
| IARC - Group 2A (Probably   | Carcinogenic to Hu   | mans)   |
| Lead, elemental             | 7439-92-1            | Monograph 87 [2006] (evaluates inorganic lead compounds as Group 2A and organic lead compounds as Group 3)            |
| IARC - Group 2B (Possibly   | Carcinogenic to Hui  | mans)   |
| Nickel, elemental           | 7440-02-0            | Monograph 49 [1990]; Supplement 7 [1987]  |
| IARC - Group 3 (Not Classi  | fiable)              |   |
| Chromium, elemental         | 7440-47-3            | Monograph 49 [1990] (listed under Chromium and Chromium compounds);<br>Supplement 7 [1987]                            |
| Mercury, elemental          | 7439-97-6            | Monograph 58 [1993]   |
| Selenium, elemental         | 7782-49-2            | Supplement 7 [1987]; Monograph 9 [1975]   |
| NTP (National Toxicology I  | Program) - Report or | Carcinogens - Known Human Carcinogens   |
| Arsenic, elemental          | 7440-38-2            | Known Human Carcinogen (listed under Arsenic and Inorganic Arsenic Compounds)   |
| Beryllium, elemental        | 7440-41-7            | Known Human Carcinogen (listed under Beryllium and Beryllium Compounds)   |
| Cadmium, elemental          | 7440-43-9            | Known Human Carcinogen (listed under Cadmium and Cadmium Compounds)   |
| NTP (National Toxicology I  | Program) - Report on | Carcinogens - Reasonably Anticipated to be Human Carcinogens  |
| Lead, elemental             | 7439-92-1            | Reasonably Anticipated To Be A Human Carcinogen   |
| Nickel, elemental           | 7440-02-0            | Reasonably Anticipated To Be A Human Carcinogen   |
| U.S California - Propositi  | on 65 - Carcinogens  | List  |
| Beryllium, elemental        | 7440-41-7            | carcinogen, initial date 10/1/87  |
| Cadmium, elemental          | 7440-43-9            | carcinogen, initial date 10/1/87  |
| Lead, elemental             | 7439-92-1            | carcinogen, initial date 10/1/92  |
| Nickel, elemental           | 7440-02-0            | carcinogen, initial date 10/1/89  |
| Mutagenicity                | Non-haza             | ardous by WHMIS/OSHA criteria.  |
| Reproductive effects        | Non-haza             | ardous by WHMIS/OSHA criteria.  |
| Teratogenicity              |                      | ardous by WHMIS/OSHA criteria.  |
| Name of Toxicologically Syr |                      | •   |
| Products                    |                      | <del></del>   |
|                             |                      |   |
|                             |                      |   |

100 mm

## 12. Ecological Information

|                                       |                        | ological information  |
|---------------------------------------|------------------------|---|
| Ecotoxicity                           | See below              |   |
| Ecotoxicity - Freshwater Algae -      |                        | a<br>72 Hr EC50 Pseudokirchneriella subcapitata: 0.0426 - 0.0535 mg/L [static]; 96 Hr   |
| Copper, elemental                     | 7440-50-8<br>7440-02-0 | EC50 Pseudokirchneriella subcapitata: 0.031 - 0.054 mg/L [static] 72 Hr EC50 Pseudokirchneriella subcapitata: 0.18 mg/L; 96 Hr EC50   |
| Nickel, elemental  Zinc, elemental    | 7440-66-6              | Pseudokirchneriella subcapitata: 0.174 - 0.311 mg/L [static]<br>96 Hr EC50 Pseudokirchneriella subcapitata: 0.11 - 0.271 mg/L [static]; 72 Hr EC50  |
| •                                     |                        | Pseudokirchneriella subcapitata: 0.09 - 0.125 mg/L [static]   |
| Ecotoxicity - Freshwater Fish - A     |                        | 96 Hr LC50 Oncorhynchus mykiss: 0.003 mg/L [flow-through]; 96 Hr LC50   |
| Cadmium, elemental                    | 7440-43-9              | Oncorhynchus mykiss: 0.006 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 0.002 mg/L; 96 Hr LC50 Cyprinus carpio: 4.26 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: 0.24 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 21.1 mg/L [flow-through]; 96 Hr LC50 Oryzias latipes: 0.016 mg/L; 96 Hr LC50 Pimephales promelas: 0.0004-0.003 mg/L  |
| Copper, elemental                     | 7440-50-8              | 96 Hr LC50 Pimephales promelas: 0.0068 - 0.0156 mg/L; 96 Hr LC50 Pimephales promelas: <0.3 mg/L [static]; 96 Hr LC50 Pimephales promelas: 0.2 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.052 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 1.25 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 0.3 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: 0.8 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 0.112 mg/L [flow-through]                        |
| Iron                                  | 7439-89-6              | 96 Hr LC50 Morone saxatilis: 13.6 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 0.56 mg/L [semi-static]  |
| Lead, elemental                       | 7439-92-1              | 96 Hr LC50 Cyprinus carpio: 0.44 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 1.17 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1.32 mg/L [static]   |
| Mercury, elemental                    | 7439-97-6              | 96 Hr LC50 Cyprinus carpio: 0.5 mg/L; 96 Hr LC50 Cyprinus carpio: 0.16 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: 0.18 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 0.18 mg/L [static]; 96 Hr LC50 Cryzias [atipes: 0.9 mg/L [flow-through]]   |
| Nickel, elemental                     | 7440-02-0              | 96 Hr LC50 Brachydanio rerio: >100 mg/L; 96 Hr LC50 Cyprinus carpio: 1.3 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: 10.4 mg/L [static]   |
| Silver, elemental                     | 7440-22-4              | 96 Hr LC50 Pimephales promelas: 0.00155-0.00293 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.0062 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus 0.064 mg/L [static]   |
| Zinc, elemental                       | 7440-66-6              | 96 Hr LC50 Pimephales promelas: 2.16-3.05 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 0.211-0.269 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 2.66 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 30 mg/L; 96 Hr LC50 Cyprinus carpio: 7.8 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 7.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 3.5 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.24 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0. |
| Ecotoxicity - Water Flea - Acute      | Toxicity Data          | ·   |
| Cadmium, elemental                    | 7440-43-9              | 48 Hr EC50 Daphnia magna: 0.0244 mg/L [Static]  |
| Copper, elemental                     | 7440-50-8              | 48 Hr EC50 Daphnia magna: 0.03 mg/L [Static]  |
| Lead, elemental                       | 7439-92-1              | 48 Hr EC50 water flea: 600 μg/L   |
| Mercury, elemental                    | 7439-97-6              | 96 Hr EC50 water flea: 5.0 μg/L<br>48 Hr EC50 Daphnia magna: >100 mg/L; 48 Hr EC50 Daphnia magna: 1 mg/L [Static  |
| Nickel, elemental                     | 7440-02-0<br>7440-22-4 | 48 Hr EC50 Daphnia magna: 0.00024 mg/L [Static]   |
| Silver, elemental<br>Zinc, elemental  | 7440-66-6              | 48 Hr EC50 Daphnia magna: 0.139 - 0.908 mg/L [Static]   |
| Persistence / degradability           | Not available          |   |
| Bioaccumulation / accumulation        | Not available          |   |
| U.S CWA (Clean Water Act) - I         |                        |   |
| Mercury, elemental                    | 7439-97-6              | Present   |
| Mobility in environmental media       | Not available          |   |
| Environmental effects                 | Not available          |   |
| Aquatic toxicity                      | Not available          |   |
| Partition coefficient                 | Not available          |   |
| Chemical fate information             | Not available          |   |
| Other adverse effects                 | Not available          | 3   |
|                                       | 13. Dis                | posal Considerations  |
| Disposal instructions                 | Dispose in a           | ccordance with all applicable regulations.  |
| Waste from residues / unused products | Not available          | Э   |
| Contaminated packaging                | Not available          | e   |

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#### 14. Transport Information

#### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

#### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

### 15. Regulatory Information

#### Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

| Canada - CEPA - Schedule I - List of Toxic Substan | ances | Subst | oxic S | T | of | List | F- | Schedule | - CEPA - | Canada - |  |
|--|-------|-------|--------|---|----|------|----|----------|----------|----------|--|
|--|-------|-------|--------|---|----|------|----|----------|----------|----------|--|

| Lead, elemental            | 7439-92-1         | Present |
|----------------------------|-------------------|---------|
| Mercury, elemental         | 7439-97-6         | Present |
| Canada - WHMIS - Ingredien | t Disclosure List |         |
| Aluminum, elemental        | 7429-90-5         | 1 %     |
| Antimony, elemental        | 7440-36-0         | 1 %     |
| Arsenic, elemental         | 7440-38-2         | 0.1 %   |
| Beryllium, elemental       | 7440-41-7         | 0.1 %   |
| Cadmium, elemental         | 7440-43-9         | 0.1 %   |
| Chromium, elemental        | 7440-47-3         | 0.1 %   |
| Copper, elemental          | 7440-50-8         | 1 %     |
| Lead, elemental            | 7439-92-1         | 0.1 %   |
| Manganese, elemental       | 7439-96-5         | 1 %     |
| Mercury, elemental         | 7439-97-6         | 0.1 %   |
| Molybdenum, elemental      | 7439-98-7         | 1 %     |
| Nickel, elemental          | 7440-02-0         | 0.1 %   |
| Selenium, elemental        | 7782-49-2         | 0.1 %   |
| Silver, elemental          | 7440-22-4         | 1 %     |
| Thallium, elemental        | 7440-28-0         | 1 %     |
|                            |                   |         |

WHMIS status Not Controlled

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical

No

#21155

#### U.S. - CAA (Clean Air Act) - National Primary Ambient Air Quality Standards

Lead, elemental

7439-92-1

1.5  $\mu$ G/m3 (maximum arithmetic mean averaged over a calendar quarter, see 40 CFR Sections 50.12 and 50.16); 0.15  $\mu$ g/m3 (arithmetic mean concentration over a 3-month period, see 40 CFR Sections 50.12 and 50.16)

#### U.S. - CAA (Clean Air Act) - National Secondary Ambient Air Quality Standards

Lead, elemental

7439-92-1

1.5  $\mu$ G/m3 (maximum arithmetic mean averaged over a calendar quarter, see 40 CFR Sections 50.12 and 50.16); 0.15  $\mu$ g/m3 (arithmetic mean concentration over a 3-month period, see 40 CFR Sections 50.12 and 50.16)

#### U.S. - CAA (Clean Air Act) - SNAP Program Listing of Substitutes for ODSs

Nitrogen

7727-37-9

Acceptable substitute for: 6

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

| Antimony, elemental | 7440-36-0 | 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 \ \mun); 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)  |

Beryllium, elemental 7440-41-7 10 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); 4.54 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)

Cadmium, elemental 7440-43-9 10 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); 4.54 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, elemental 7440-47-3 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)

Copper, elemental 7440-50-8 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)

Lead, elemental
7439-92-1
10 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); 4.54 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)

Mercury, elemental 7439-97-6
Nickel, elemental 7440-02-0
1 Lb final RQ; 0.454 kg final RQ
100 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); 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)

Selenium, elemental 7782-49-2 100 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); 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)

Silver, elemental 7440-22-4 1000 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); 454 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)

Thallium, elemental 7440-28-0 1000 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); 454 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)

Zinc, elemental 7440-66-6 454 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); 1000 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)

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

| Aluminum, elemental  | 7429-90-5 | 1.0 % de minimis concentration (dust or fume only)                                   |
|----------------------|-----------|--|
| Antimony, elemental  | 7440-36-0 | 1.0 % de minimis concentration   |
| Arsenic, elemental   | 7440-38-2 | 0.1 % de minimis concentration   |
| Barium               | 7440-39-3 | 1.0 % de minimis concentration   |
| Beryllium, elemental | 7440-41-7 | 0.1 % de minimis concentration   |
| Cadmium, elemental   | 7440-43-9 | 0.1 % de minimis concentration   |
| Chromium, elemental  | 7440-47-3 | 1.0 % de minimis concentration   |
| Copper, elemental    | 7440-50-8 | 1.0 % de minimis concentration   |
| Lead, elemental      | 7439-92-1 | 0.1 % Supplier notification limit; 0.1 % de minimis concentration (when contained in |
|                      |           | stainless steel, brass, or bronze)   |
| Manganese, elemental | 7439-96-5 | 1.0 % de minimis concentration   |
| Mercury, elemental   | 7439-97-6 | 1.0 % Supplier notification limit  |
| Nickel, elemental    | 7440-02-0 | 0.1 % de minimis concentration   |

Selenium, elemental 7782-49-2 1.0 % de minimis concentration Silver, elemental 7440-22-4 1.0 % de minimis concentration Thallium, elemental 7440-28-0 1.0 % de minimis concentration Zinc, elemental 7440-66-6 1.0 % de minimis concentration (dust or fume only) U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing Lead, elemental 7439-92-1 100 Lb RT (this lower threshold does not apply to lead when it is contained in stainless steel, brass or bronze alloy) Mercury, elemental 7439-97-6 10 Lb RT U.S. - CWA (Clean Water Act) - Bioaccumulative Chemicals of Concern (BCCs) Mercury, elemental 7439-97-6 Present U.S. - CWA (Clean Water Act) - Priority Pollutants Antimony, elemental 7440-36-0 Present Arsenic, elemental 7440-38-2 Present Beryllium, elemental 7440-41-7 Present Cadmium, elemental 7440-43-9 Present Chromium, elemental 7440-47-3 Present Copper, elemental 7440-50-8 Present Lead, elemental 7439-92-1 Present Mercury, elemental 7439-97-6 Present Nickel, elemental 7440-02-0 Present Selenium, elemental 7782-49-2 Present Silver, elemental 7440-22-4 Present Thallium, elemental 7440-28-0 Present Zinc, elemental 7440-66-6 Present U.S. - CWA (Clean Water Act) - Toxic Pollutants Antimony, elemental 7440-36-0 Present Arsenic, elemental 7440-38-2 Present Beryllium, elemental 7440-41-7 Present Cadmium, elemental 7440-43-9 Present Chromium, elemental 7440-47-3 Present Copper, elemental 7440-50-8 Present Lead, elemental 7439-92-1 Present Mercury, elemental 7439-97-6 Present Nickel, elemental 7440-02-0 Present Selenium, elemental 7782-49-2 Present Silver, elemental 7440-22-4 Present Thallium, elemental 7440-28-0 Present Zinc, elemental 7440-66-6 Present

#### CERCLA (Superfund) reportable quantity

Nickel: 100.0000 Arsenic: 1.0000 Chromium: 5000.0000 Cadmium: 10.0000 Silver: 1000.0000 Copper: 5000.0000 Lead: 10.0000 Antimony: 5000.0000 Selenium: 100.0000 Beryllium: 10.0000 Thallium: 1000.0000 Mercury: 1.0000

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

MO

Section 311 hazardous chemical No

Clean Water Act (CWA)

Not available

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See below

| _  |   |  |
|--|---|--|
| U.S California - 8 CCR Sec   | tion 339 - Director's   | List of Hazardous Substances   |
| Aluminum, elemental  | 7429-90-5   | Present  |
| Antimony, elemental  | 7440-36-0   | Present  |
| Arsenic, elemental   | 7440-38-2   | Present (refers to any mixture containing >=0.02% Inorganic arsenic)   |
| Beryllium, elernental  | 7440-41-7   | Present (exempt when encapsulated in a capsule which meets the definition of   |
| •  |   | Special Form Materials prescribed in 49 CFR 173.403(z))  |
| Cadmium, elemental   | 7440-43-9   | Present  |
| Chromium, elemental  | 7440-47-3   | Present  |
| Copper, elemental  | 7440-50-8   | Present  |
| Iron   | 7439-89-6   | Present  |
| Lead, elemental  | 7439-92-1   | Present  |
| Manganese, elemental   | 7439-96-5   | Present  |
| Mercury, elemental   | 7439-97-6   | Present  |
| Molybdenum, elemental  | 7439-98-7   | Present  |
| Nickel, elemental  | 7440-02-0   | Present  |
| Selenium, elemental  | 7782-49-2   | Present Present  |
| Silver, elemental  | 7440-22-4   | Present  |
| Thallium, elemental  | 7440-28-0<br>7440-66-6  | Present  |
| Zinc, elemental  |   |  |
| U.S California - Propositio  |   |  |
| Beryllium, elemental   | 7440-41-7   | carcinogen, initial date 10/1/87   |
| Cadmium, elemental   | 7440-43-9   | carcinogen, initial date 10/1/87   |
| Lead, elemental  | 7439-92-1   | carcinogen, initial date 10/1/92   |
| Nickel, elemental  | 7440-02-0   | carcinogen, initial date 10/1/89   |
| U.S California - Propositio  |   |  |
| Cadmium, elemental   | 7440-43-9   | developmental toxicity, initial date 5/1/97  |
| Lead, elemental  | 7439-92-1   | developmental toxicity, initial date 2/27/87   |
| Mercury, elemental   | 7439-97-6   | developmental toxicity, initial date 7/1/90  |
| U.S California - Propositio  | n 65 - Reproductive   |  |
| Lead, elemental  | 7439-92-1   | female reproductive toxicity, initial date 2/27/87   |
| U.S California - Propositio  | n 65 - Reproductive   |  |
| Cadmium, elementa!   | 7440-43-9   | male reproductive toxicity, initial date 5/1/97  |
| Lead, elemental  | 7439-92-1   | male reproductive toxicity, initial date 2/27/87   |
| U.S Connecticut - Carcino  | genic Substances  |  |
| Arsenic, elemental   | 7440-38-2   | Present  |
| U.S Illinois - Toxic Air Con   | taminant Carcinoge  | ens  |
| Arsenic, elemental   | 7440-38-2   | ACGIH Carcinogen; IRIS A Carcinogen; NTP Known Carcinogen  |
| Beryllium, elemental   | 7440-41-7   | ACGIH Carcinogen; IRIS B2 Carcinogen; NTP Known Carcinogen   |
| Cadmium, elemental   | 7440-43-9   | ACGIH Carcinogen; IRIS B1 Carcinogen; NTP Known Carcinogen   |
| Lead, elemental  | 7439-92-1   | IRIS B2 Carcinogen; IARC 2A Carcinogen; NTP Anticipated Carcinogen   |
| Nickel, elemental  | 7440-02-0   | NTP Anticipated Carcinogen; IARC 2B Carcinogen   |
| U.S Illinois - Toxic Air Con   | taminants   |  |
|  |   | Present  |
| Antimony elemental   | 7440-36-0   |  |
| Antimony, elemental<br>Arsenic, elemental  | 7440-36-0<br>7440-38-2  | Present  |
| Arsenic, elemental   |   | Present<br>Present   |
| Arsenic, elemental<br>Beryllium, elemental   | 7440-38-2<br>7440-41-7  |  |
| Arsenic, elemental   | 7440-38-2   | Present  |
| Arsenic, elemental<br>Beryllium, elemental<br>Cadmium, elemental<br>Chromium, elemental  | 7440-38-2<br>7440-41-7<br>7440-43-9   | Present Present  |
| Arsenic, elemental<br>Beryllium, elemental<br>Cadmium, elemental   | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3  | Present<br>Present<br>Present  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental   | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8   | Present<br>Present<br>Present<br>Present   |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental   | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1  | Present Present Present Present Present Present Present  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental  | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-02-0   | Present  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Nickel, elemental Selenium, elemental  | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-02-0<br>7782-49-2                                    | Present  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental   | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-02-0<br>7782-49-2                                    | Present  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Nickel, elemental Selenium, elemental  | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-02-0<br>7782-49-2                                    | Present Pollutants 5000 Lb final RQ (no reporting of releases of this hazardous substance is required if   |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable  | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-02-0<br>7782-49-2<br>Page Quantity List for F        | Present Pollutants 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   |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable  | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-02-0<br>7782-49-2<br>Page Quantity List for F        | Present (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  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable  | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-20<br>7782-49-2<br>e Quantity List for F             | Present Pollutants  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)   |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable  | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-02-0<br>7782-49-2<br>Page Quantity List for F        | Present 100 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) 1 Lb final RQ (no reporting of releases of this hazardous substance is required if the   |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable  | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-20<br>7782-49-2<br>e Quantity List for F             | Present Pollutants  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 pieces of the solid metal released is >=100 µm) 1 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); 0.454 kg final RQ (no   |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable  | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-20<br>7782-49-2<br>e Quantity List for F             | Present Pollutants  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) 1 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); 0.454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable Antimony, elemental   | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-02-0<br>7782-49-2<br>Paguantity List for F<br>7440-36-0           | Present Pollutants  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)  1 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); 0.454 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)  100 Lb RQ (no reporting of releases of this hazardous substance is required if the   |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable  | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-47-3<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-20<br>7782-49-2<br>e Quantity List for F             | Present Pollutants  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) 1 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); 0.454 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) 100 Lb 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)   |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable Antimony, elemental   | 7440-38-2<br>7440-41-7<br>7440-43-9<br>7440-50-8<br>7439-92-1<br>7439-96-5<br>7439-97-6<br>7440-02-0<br>7782-49-2<br>Paguantity List for F<br>7440-36-0           | Present 1  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mickel, elemental Selenium, elemental U.S Louisiana - Reportable Antimony, elemental Arsenic, elemental                              | 7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7439-96-5 7439-97-6 7440-02-0 7782-49-2 Page Quantity List for F 7440-36-0 7440-38-2                  | Present 1  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mickel, elemental Selenium, elemental U.S Louisiana - Reportable Antimony, elemental Arsenic, elemental                              | 7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7439-96-5 7439-97-6 7440-02-0 7782-49-2 Page Quantity List for F 7440-36-0 7440-38-2                  | Present 1  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable Antimony, elemental  Barium Beryllium, elemental | 7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7439-96-5 7439-97-6 7440-02-0 7782-49-2 P Quantity List for F 7440-36-0 7440-38-2 7440-39-3 7440-41-7 | Present Pollutants  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); 0.454 kg final RQ (no reporting of releases of this hazardous substance is required if the pieces of the solid metal released is >=100 μm) 100 Lb 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) 10 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); 4.54 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); 4.54 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); 4.54 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) |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mickel, elemental Selenium, elemental U.S Louisiana - Reportable Antimony, elemental Arsenic, elemental                              | 7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7439-96-5 7439-97-6 7440-02-0 7782-49-2 Page Quantity List for F 7440-36-0 7440-38-2                  | Present  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)  1 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); 0.454 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)  100 Lb 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)  10 Lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of this hazardous substance is required if the diameter of the pieces of this hazardous substance is required if the diameter of the solid metal released is >=100 μm); 4.54 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)  |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable Antimony, elemental  Barium Beryllium, elemental | 7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7439-96-5 7439-97-6 7440-02-0 7782-49-2 P Quantity List for F 7440-36-0 7440-38-2 7440-39-3 7440-41-7 | Present  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)  1 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); 0.454 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)  100 Lb 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)  10 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); 4.54 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); 4.54 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); 4.54 kg final RQ (no                                       |
| Arsenic, elemental Beryllium, elemental Cadmium, elemental Chromium, elemental Copper, elemental Lead, elemental Manganese, elemental Mercury, elemental Nickel, elemental Selenium, elemental U.S Louisiana - Reportable Antimony, elemental  Barium Beryllium, elemental | 7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7439-96-5 7439-97-6 7440-02-0 7782-49-2 P Quantity List for F 7440-36-0 7440-38-2 7440-39-3 7440-41-7 | Present  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)  1 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); 0.454 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)  100 Lb 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)  10 Lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of this hazardous substance is required if the diameter of the pieces of this hazardous substance is required if the diameter of the solid metal released is >=100 μm); 4.54 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, elemental                        | 7440-47-3              | 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) |
| Copper, elemental                          | 7440-50-8              | 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   |
| Lead, elemental                            | 7439-92-1              | pleces of the solid metal released is >=100 µm) 10 Lb final RQ (no reporting of releases of this hazardous substance is required if the  |
|  | 7 100 02 1             | diameter of the pieces of the solid metal released is >=100 μm); 4.54 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)   |
| Manganese, elemental                       | 7439-96-5              | 100 Lb RQ (no reporting required if diameter of solid metal pieces released is >100  |
| Mercury, elemental                         | 7439-97-6              | μm)<br>1 Lb final RQ; 0.454 kg final RQ  |
| Nickel, elemental                          | 7440-02-0              | 100 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); 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)  |
| Selenium, elemental                        | 7782-49-2              | 100 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); 45.4 kg final RQ   |
|  |                        | (no reporting of releases of this hazardous substance is required if the diameter of the   |
| Silver, elemental                          | 7440-22-4              | pieces of the solid metal released is >=100 µm) 1000 Lb final RQ (no reporting of releases of this hazardous substance is required if  |
| Oliver, elementar                          | 1440-22-4              | the diameter of the pieces of the solid metal released is >=100 µm); 454 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)   |
| Thallium, elemental                        | 7440-28-0              | 1000 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); 454 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)   |
| Zinc, elemental                            | 7440-66-6              | 454 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); 1000 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)  |
| U.S Massachusetts - Righ                   |                        |  |
| Aluminum, elemental<br>Antimony, elemental | 7429-90-5<br>7440-36-0 | Present Present  |
| Arsenic, elemental                         | 7440-38-2              | Carcinogen; Extraordinarily hazardous  |
| Barium                                     | 7440-39-3              | Present  |
| Beryllium, elemental                       | 7440-41-7              | Carcinogen; Extraordinarily hazardous  |
| Cadmium, elemental                         | 7440-43-9              | Carcinogen; Extraordinarily hazardous  |
| Chromium, elemental                        | 7440-47-3              | Carcinogen; Extraordinarily hazardous  |
| Copper, elemental<br>Lead, elemental       | 7440-50-8<br>7439-92-1 | Present<br>Teratogen   |
| Manganese, elemental                       | 7439-96-5              | Present  |
| Mercury, elemental                         | 7439-97-6              | Present  |
| Molybdenum, elemental                      | 7439-98-7              | Present  |
| Nickel, elemental                          | 7440-02-0              | Carcinogen; Extraordinarily hazardous  |
| Nitrogen<br>Selenium, elemental            | 7727-37-9<br>7782-49-2 | Present Present  |
| Silver, elemental                          | 7440-22-4              | Present  |
| Thallium, elemental                        | 7440-28-0              | Present  |
| Zinc, elemental                            | 7440-66-6              | Present  |
| U.S Michigan - Critical Ma                 |                        |  |
| Arsenic, elemental                         | 7440-38-2              | 100 Lb Annual usage threshold  |
| Beryllium, elemental<br>Cadmium, elemental | 7440-41-7<br>7440-43-9 | 100 Lb Annual usage threshold<br>100 Lb Annual usage threshold   |
| Chromium, elemental                        | 7440-47-3              | 100 Lb Annual usage threshold  |
| Copper, elemental                          | 7440-50-8              | 100 Lb Annual usage threshold  |
| Lead, elemental                            | 7439-92-1              | 100 Lb Annual usage threshold  |
| Mercury, elemental                         | 7439-97-6              | 10 Lb Annual usage threshold   |
| Nickel, elemental<br>Selenium, elemental   | 7440-02-0<br>7782-49-2 | 100 Lb Annual usage threshold<br>100 Lb Annual usage threshold   |
| Silver, elemental                          | 7440-22-4              | 100 Lb Annual usage threshold  |
| Zinc, elemental                            | 7440-66-6              | 100 Lb Annual usage threshold  |
| U.S Minnesota - Hazardou                   | s Substance List       |  |
| Aluminum, elemental                        | 7429-90-5              | Present (dust)   |
| Antimony, elemental                        | 7440-36-0              | Present (as Sb)  |
| Arsenic, elemental<br>Barium               | 7440-38-2<br>7440-39-3 | Carcinogen Present (as Ba)   |
| Beryllium, elemental                       | 7440-41-7              | Carcinogen   |
| Cadmium, elemental                         | 7440-43-9              | Carcinogen (as Cd, dust and fume)  |
| Chromium, elemental                        | 7440-47-3              | Present  |
| Copper, elemental<br>Lead, elemental       | 7440-50-8<br>7439-92-1 | Present (as Cu, dust, fume, and mist) Carcinogen (elemental inorganic fume, and dust)  |
| Load, Ciciliental                          | 1773-84-1              | Carcinogen (elemental, inorganic, fume, and dust)  |

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| Manganese, elemental      | 7439-96-5              | Present (as Mn)  |
|---------------------------|------------------------|--|
| Mercury, elemental        | 7439-90-6              | Skin   |
| Molybdenum, elemental     | 7439-98-7              | Present (as Mo)  |
| Nickel, elemental         | 7440-02-0              | Carcinogen (as Ni)   |
| Nitrogen                  | 7727-37-9              | Present  |
| Silver, elemental         | 7440-22-4              | Present (as Ag)  |
| U.S New Jersey - Right to |                        |  |
|                           | 7429-90-5              | sn 0054  |
| Aluminum, elemental       | 7429-90-5<br>7440-36-0 | sn 0141  |
| Antimony, elemental       | 7440-38-0<br>7440-38-2 | sn 0152  |
| Arsenic, elemental        | 7440-38-2<br>7440-39-3 | sn 0180  |
| Barium                    | 7440-39-3<br>7440-41-7 | sn 0222  |
| Beryllium, elemental      | 7440-41-7              | sn 3201  |
| Boron                     | 7440-42-0              | sn 0305  |
| Cadmium, elemental        | 7440-43-9<br>7440-47-3 | sn 0432  |
| Chromium, elemental       | 7440-47-3              | sn 0528  |
| Copper, elemental         | 7440-50-6              | sn 1096  |
| Lead, elemental           | 7439-92-1<br>7439-96-5 | sn 1155 (dust and fume)  |
| Manganese, elemental      | 7439-90-3<br>7439-97-6 | sn 1183  |
| Mercury, elemental        |                        | sn 1309  |
| Molybdenum, elemental     | 7439-98-7<br>7440-02-0 | sn 1341 (dust and fume)  |
| Nickel, elemental         | 7727-37-9              | sn 1375 (compressed or liquefied)  |
| Nitrogen                  | 7782-49-2              | sn 1648  |
| Selenium, elemental       | 7440-22-4              | sn 1669  |
| Silver, elemental         | 7440-22-4              | sn 1840  |
| Thallium, elemental       | 7440-26-6<br>7440-66-6 | sn 2021 (dust and fume)  |
| Zinc, elemental           |                        |  |
| U.S New York - Reporting  |                        | 7 - List of Hazardous Substances   |
| Antimony, elemental       | 7440-36-0              | 5000 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 μm); 100 lb RQ (land/water, notification is not required if the mean diameter of the particles released is >100 μm)   |
| Arsenic, elemental        | 7440-38-2              | 1 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 $\mu$ m); 10 lb RQ (land/water, notification is not required if the mean diameter of the particles released is >100 $\mu$ m)   |
| Beryllium, elemental      | 7440-41-7              | 10 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 µm); 10 lb RQ (land/water, notification is not required if the mean   |
| Cadmium, elemental        | 7440-43-9              | diameter of the particles released is >100 μm)  1 Lb RQ (air); 1 lb RQ (land/water); 10 lb RQ (air, notification is not required if the mean diameter of the particles released is >100 μm); 10 lb RQ (land/water, notification is not required if the mean diameter of the particles released is >100 μm)       |
| Chromium, elemental       | 7440-47-3              | notification is not required if the mean diameter of the particles released is >100 μm) 5000 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 μm); 100 lb RQ (land/water, notification is not required if the mean diameter of the particles released is >100 μm) |
| Copper, elemental         | 7440-50-8              | 5000 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 μm); 100 lb RQ (land/water, notification is not required if the mean diameter of the particles released is >100 μm)   |
| Lead, elemental           | 7439-92-1              | 10 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 μm); 10 lb RQ (land/water, notification is not required if the mean diameter of the particles released is >100 μm)  |
| Mercury, elemental        | 7439-97-6              | 1 Lb RQ (air); 1 lb RQ (land/water)  |
| Nickel, elemental         | 7440-02-0              | 100 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 μm); 100 lb RQ (land/water, notification is not required if the mean diameter of the particles released is >100 μm)  |
| Selenium, elemental       | 7782-49-2              | 100 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 µm); 100 lb RQ (land/water, notification is not required if the mean   |
| Silver, elemental         | 7440-22-4              | diameter of the particles released is >100 µm) 1000 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 µm); 100 lb RQ (land/water, notification is not required if the mean   |
|                           |                        | diameter of the particles released is >100 µm)   |
| Thallium, elemental       | 7440-28-0              | 1000 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 µm); 100 lb RQ (land/water, notification is not required if the mean diameter of the particles released is >100 µm)   |
| Zinc, elemental           | 7440-66-6              | 1000 Lb RQ (air, notification is not required if the mean diameter of the particles released is >100 μm); 100 lb RQ (land/water, notification is not required if the mean  |
| U.S North Carolina - Cont |                        |  |
| Arsenic, elemental        | 7440-38-2              | 0.00000023 mg/m3 (carcinogens)   |
| Beryllium, elemental      | 7440-41-7              | 0.0000041 mg/m3 (carcinogens)  |
| Cadmium, elemental        | 7440-43-9              | 0.0000055 mg/m3 (carcinogens)  |
| Manganese, elemental      | 7439-96-5              | 0.031 mg/m3 (chronic toxicants)  |
| Mercury, elemental        | 7439-97-6              | 0.0006 mg/m3 (vapor, chronic toxicants)  |
| Nickel, elemental         | 7440-02-0              | 0.006 mg/m3 (chronic toxicants)  |
| U.S Pennsylvania - RTK (  |                        | ecial Hazardous Substances   |
| Arsenic, elemental        | 7440-38-2              | Present  |
| Beryllium, elemental      | 7440-41-7              | Present  |
| Cadmium, elemental        | 7440-43-9              | Present (powder)   |
| Chromium, elemental       | 7440-47-3              | Present  |
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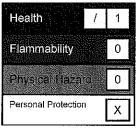
| Nickel, elemental          | 7440-02-0          | Present   |
|----------------------------|--------------------|---|
| U.S Pennsylvania - RTK (R  | -                  |   |
| Aluminum, elemental        | 7429-90-5          | Environmental hazard  |
| Antimony, elemental        | 7440-36-0          | Environmental hazard  |
| Arsenic, elemental         | 7440-38-2          | Environmental hazard (inorganic); Special hazardous substance                   |
| Barium                     | 7440-39-3          | Environmental hazard .  |
| Beryllium, elemental       | 7440-41-7          | Environmental hazard (dust); Special hazardous substance                        |
| Cadmium, elemental         | 7440-43-9          | Environmental hazard (dust, fume, powder); Special hazardous substance (powder) |
| Chromium, elemental        | 7440-47-3          | Environmental hazard; Special hazardous substance                               |
| Copper, elemental          | 7440-50-8          | Environmental hazard (dust and fume)  |
| Lead, elemental            | 7439-92-1          | Environmental hazard  |
| Manganese, elemental       | 7439-96-5          | Environmental hazard  |
| Mercury, elemental         | 7439-97-6          | Environmental hazard  |
| Molybdenum, elemental      | 7439-98-7          | Present   |
| Nickel, elemental          | 7440-02-0          | Environmental hazard; Special hazardous substance                               |
| Nitrogen                   | 7727-37-9          | Present   |
| Selenium, elemental        | 7782-49-2          | Environmental hazard  |
| Silver, elemental          | 7440-22-4          | Environmental hazard  |
| Thallium, elemental        | 7440-28-0          | Environmental hazard  |
| Zinc, elemental            | 7440-66-6          | Environmental hazard  |
| U.S Rhode Island - Hazarde | ous Substance List |   |
| Aluminum, elemental        | 7429-90-5          | Toxic (dust, powder, welding fumes); Flammable (dust, powder, welding fumes)    |
| Antimony, elemental        | 7440-36-0          | Toxic   |
| Arsenic, elemental         | 7440-38-2          | Toxic; Carcinogen   |
| Barium                     | 7440-39-3          | Toxic   |
| Beryllium, elemental       | 7440-41-7          | Toxic; Flammable; Carcinogen  |
| Cadmium, elemental         | 7440-43-9          | Toxic (dust); Carcinogen (dust)   |
| Chromium, elemental        | 7440-47-3          | Toxic; Carcinogen   |
| Copper, elemental          | 7440-50-8          | Toxic (dust, fume, and mist)  |
| Manganese, elemental       | 7439-96-5          | Toxic   |
| Mercury, elemental         | 7439-97-6          | Toxic (skin)  |
| Molybdenum, elemental      | 7439-98-7          | Toxic   |
| Nickel, elemental          | 7440-02-0          | Toxic; Carcinogen   |
| Nitrogen                   | 7727-37-9          | Flammable (liquefied)   |
| Selenium, elemental        | 7782-49-2          | Toxic   |
| Silver, elemental          | 7440-22-4          | Toxic   |
| Thallium, elemental        | 7440-28-0          | Toxic (skin)  |
| Zinc, elemental            | 7440-66-6          | Flammable   |

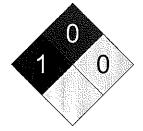
Inventory name

| Country(s) or region  | Inventory name On inventory (ye               | es/no)* |  |  |
|---|---|---------|--|--|
| Canada  | Domestic Substances List (DSL)                | Yes     |  |  |
| Canada  | Non-Domestic Substances List (NDSL)           | No      |  |  |
| United States & Puerto Rico   | Toxic Substances Control Act (TSCA) Inventory | Yes     |  |  |
| A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) |   |         |  |  |

## 16. Other Information

# LEGEND HMIS/NFPA Severe 4 Serious 3 Moderate 2 Slight 1





## Minimal Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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