

# SAFETY DATA SHEET

Issuing Date 26-Nov-2012 Revision Date 20-Nov-2017 Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**GHS** product identifier

Product Name Chromium-Nickel Alloyed Stainless Steel grades

Other means of identification

**Synonyms** 301, 302, 303, 304, 305, 308, 309, 310, 314, 321, 347, 415, F6NM, UNS S41003, 1.4306,

153MA®, 253MA® and Outokumpu 2304. This includes all listed grades with letter prefixes  $\,$ 

and suffixes as well as PRODEC® suffix, with the exception of 303Cu, 304Cu, UNS

S30430, 310MoLN.

Recommended use of the chemical and restrictions on use

Recommended Use Solid stainless steel products, various forms, and uses

Uses advised against No information available

#### Supplier's details

#### **Supplier Address**

Outokumpu Stainless Bar, LLC 3043 Crenshaw Parkway Richburg, SC 29729

TEL: 1-888-458-4600; 1-803-789-5383

Outokumpu Stainless USA, LLC One Steel Drive Calvert, AL 36513 TEL: 1-251-829-3600

Outokumpu Mexinox S.A de C.V AV. Industrias No. 4100 Zona Industrial 1a. Sección 78395, San Luis Potosí, México TEL: +52+444+826-5100

### **Emergency telephone number**

Emergency Telephone

251-829-3600

Number

## 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Solid metallic products are generally classified as "articles" and do not constitute hazardous materials in solid form. However, downstream use of the article could result in some hazardous elements contained in these products to be emitted under certain processing conditions such as but not limited to: burning, melting, cutting, sawing, brazing, grinding, machining, milling, and welding. The classification given below pertains to these alloys when used during these processes.

| Acute Oral Toxicity       | Category 4 |
|---------------------------|------------|
| Respiratory Sensitization | Category 1 |

| Skin Sensitization                                 | Category 1  |
|--|-------------|
| Carcinogenicity                                    | Category 1B |
| Specific Target Organ Toxicity (Repeated Exposure) | Category 1  |

### GHS Label elements, including precautionary statements

### **Emergency Overview**

## Signal Word

### Danger

### **Hazard Statements**

- Harmful if swallowed
- · May cause allergy or asthma symptoms or breathing difficulties if inhaled
- May cause an allergic skin reaction
- May cause cancer
- Causes damage to organs through prolonged or repeated exposure





Appearance Varying from dull very light grey, to shiny metallic light grey to bright mirror-finish

Physical State Solid.

Odor Odorless

### **Precautionary Statements**

### Prevention

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- In case of inadequate ventilation wear respiratory protection
- Contaminated work clothing should not be allowed out of the workplace
- Do not breathe dust/fume/gas/mist/vapors/spray

### **General Advice**

• IF exposed or concerned: Get medical attention/advice

#### Skin

- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse

#### Inhalation

- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

#### Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth

### Storage

• Store in accordance with local/regional/national regulations.

#### **Disposal**

• Dispose of in accordance with local/regional/national regulations.

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#### **Hazard Not Otherwise Classified (HNOC)**

Not applicable

#### Other information

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** 

301, 302, 303, 304, 305, 308, 309, 310, 314, 321, 347, 415, F6NM, UNS S41003, 1.4306, 153MA®, 253MA® and Outokumpu 2304. This includes all listed grades with letter prefixes and suffixes as well as PRODEC® suffix, with the exception of 303Cu, 304Cu, UNS S30430, 310MoLN.

| Chemical Name | CAS-No    | Weight % | Trade secret |
|---------------|-----------|----------|--------------|
| Iron          | 7439-89-6 | Balance  | *            |
| Nickel        | 7440-02-0 | 1.5-37   | *            |
| Chromium      | 7440-47-3 | 11.5-26  | *            |
| Silicon       | 7440-21-3 | 0-2      | *            |
| Manganese     | 7439-96-5 | 0-2      | *            |
| Molybdenum    | 7439-98-7 | 0-1      | *            |
| Titanium      | 7440-32-6 | 0-0.7    | *            |
| Copper        | 7440-50-8 | 0-1.9    | *            |
| Cobalt        | 7440-48-4 | 0-0.6    | *            |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

### **Description of necessary first-aid measures**

General Advice In its solid form stainless steel does not present an inhalation, absorption, or ingestion

hazard. Grinding, polishing, abrasive blasting, hot rolling, hot forging,thermal cutting, or welding may produce stainless steel dust or fumes containing complex or mixed oxides (spinels) of its components. Metal dust particles may cause eye, skin and/or respiratory

system irritation. The below information is for these instances.

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact** Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic

reactions see a physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Consult a physician.

**Ingestion** Not an expected route of exposure. If swallowed: Get medical attention.

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

Most Important Symptoms/Effects Coughing and/ or wheezing. Difficulty in breathing. Irritation. May cause allergic skin

reaction.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** May cause sensitization by inhalation and skin contact. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

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#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media None

#### **Specific Hazards Arising from the Chemical**

Avoid dust formation. Dust can form an explosive mixture in air. May cause sensitization by inhalation and skin contact.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid dust formation. Avoid inhalation of dust. Ensure adequate ventilation. In case of

insufficient ventilation wear suitable respiratory equipment. Use personal protective

equipment. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** 

Environmental Precautions Not applicable to steel in solid state. Follow applicable federal, state and local regulations

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Cover dust spill with plastic sheet or tarp

to minimize spreading.

**Methods for Cleaning Up**Take up mechanically and collect in suitable container for disposal. Avoid dust formation.

Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid dust

formation. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Wear personal

protective equipment. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage** Store in accordance with local regulations.

Incompatible Products May react in contact with strong acids to release gaseous acid decomposition products, e.g.

hydrogen, oxides of nitrogen. Use of strong oxidizers (high pH) on stainless steel may cause Cr(VI) compounds to form at ambient temperatures. Decomposition: Fumes generated during welding, brazing, or thermal cutting may contain: chromium compounds, including hexavalent chromium Cr(VI); nickel; manganese; iron; molybdenum; and silicon

compounds.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

**Exposure Guidelines** 

There are no occupational exposure limits for stainless steels. Occupational exposure limits apply to some components resulting from grinding, polishing, abrasive blasting, hot rolling, hot forging, thermal cutting, or welding which may produce stainless steel dust or fumes.

| Chemical Name | ACGIH TLV                           | OSHA PEL                                   | NIOSH IDLH                                 |
|---------------|-------------------------------------|--|--|
| Nickel        | TWA: 1.5 mg/m <sup>3</sup>          | TWA: 1 mg/m <sup>3</sup>                   | IDLH: 10 mg/m <sup>3</sup>                 |
| 7440-02-0     |                                     | (vacated) TWA: 1 mg/m <sup>3</sup>         | TWA: 0.015 mg/m <sup>3</sup>               |
| Silicon       | -                                   | TWA: 15 mg/m <sup>3</sup> total dust       | TWA: 10 mg/m <sup>3</sup> total dust       |
| 7440-21-3     |                                     | TWA: 5 mg/m <sup>3</sup> respirable        | TWA: 5 mg/m <sup>3</sup> respirable dust   |
|               |                                     | fraction                                   | -  |
|               |                                     | (vacated) TWA: 10 mg/m <sup>3</sup> total  |  |
|               |                                     | dust                                       |  |
|               |                                     | (vacated) TWA: 5 mg/m <sup>3</sup>         |  |
|               |                                     | respirable fraction                        |  |
| Manganese     | TWA: 0.2 mg/m <sup>3</sup>          | (vacated) TWA: 1 mg/m³ fume                | IDLH: 500 mg/m <sup>3</sup>                |
| 7439-96-5     |                                     | (vacated) STEL: 3 mg/m <sup>3</sup> fume   | TWA: 1 mg/m <sup>3</sup> fume              |
|               |                                     | (vacated) Ceiling: 5 mg/m <sup>3</sup>     | STEL: 3 mg/m <sup>3</sup>                  |
|               |                                     | Ceiling: 5 mg/m³ fume                      |  |
| Molybdenum    | TWA: 10 mg/m <sup>3</sup> inhalable | (vacated) TWA: 10 mg/m <sup>3</sup>        | IDLH: 5000 mg/m <sup>3</sup>               |
| 7439-98-7     | fraction                            |  |  |
|               | TWA: 3 mg/m <sup>3</sup> respirable |  |  |
|               | fraction                            |  |  |
| Copper        | TWA: 0.2 mg/m <sup>3</sup> fume     |  | IDLH: 100 mg/m <sup>3</sup> dust, fume and |
| 7440-50-8     |                                     | TWA: 1 mg/m <sup>3</sup> dust and mist     | mist                                       |
|               |                                     | (vacated) TWA: 0.1 mg/m <sup>3</sup> Cu    | TWA: 1 mg/m <sup>3</sup> dust and mist     |
|               |                                     | dust, fume, mist                           | TWA: 0.1 mg/m <sup>3</sup> fume            |
| Cobalt        | TWA: 0.02 mg/m <sup>3</sup>         | TWA: 0.1 mg/m <sup>3</sup> dust and fume   |  |
| 7440-48-4     |                                     | (vacated) TWA: 0.05 mg/m <sup>3</sup> dust | Ŭ  |
|               |                                     | and fume                                   | fume                                       |

**Appropriate engineering controls** 

**Engineering Measures** 

Ensure adequate ventilation, especially in confined area (i.e. showers, eyewash stations,

etc.).

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

Eye/Face Protection Skin and Body Protection Respiratory Protection When processing the metal alloy wear: Tightly fitting safety goggles. When processing the metal alloy: Wear protective gloves/clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical State** Solid **Appearance** Varying from dull very light grey,

to shiny metallic light grey to

bright mirror-finish

Odor Odorless Odor Threshold No information available

Valu<u>es</u> Remarks/ - Method Property No data available None known pН . Melting Point/Range 1370-1520 °C / 2498-2768 °F None known **Boiling Point/Boiling Range** No data available None known Flash Point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limits in Air upper flammability limit No data available lower flammability limit No data available **Vapor Pressure** No data available None known

Vapor Density No data available None known **Relative Density** No data available None known **Specific Gravity** No data available. None known **Water Solubility** No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known **Viscosity** No data available None known

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) No data available

### 10. STABILITY AND REACTIVITY

### Reactivity

No data available. **Chemical stability** 

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### **Conditions to avoid**

Dust formation.

### **Incompatible materials**

May react in contact with strong acids to release gaseous acid decomposition products, e.g. hydrogen, oxides of nitrogen. Use of strong oxidizers (high pH) on stainless steel may cause Cr(VI) compounds to form at ambient temperatures. Decomposition: Fumes generated during welding, brazing, or thermal cutting may contain: chromium compounds, including hexavalent chromium Cr(VI); nickel; manganese; iron; molybdenum; and silicon compounds.

#### **Hazardous decomposition products**

None known based on information supplied.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** In its solid form stainless steel does not present an inhalation, absorption, or ingestion

hazard. Grinding, polishing, abrasive blasting, hot rolling, hot forging, thermal cutting, or welding may produce stainless steel dust or fumes containing complex or mixed oxides (spinels) of its components. Metal dust particles may cause eye, skin and/or respiratory

system irritation. The below information is for these instances.

**Inhalation** May cause irritation of respiratory tract. Inhalation of fumes may cause metal fume fever,

which is characterized by flu-like symptoms with metallic taste, fever, chills, cough,

weakness, chest pain, muscle pain and increased white blood cell count. May cause allergy

or asthma symptoms or breathing difficulties if inhaled.

**Eye Contact** Contact with eyes may cause irritation.

Skin Contact Contact with dust can cause mechanical irritation or drying of the skin. Repeated or

prolonged skin contact may cause allergic reactions with susceptible persons.

**Ingestion** May cause irritation

| Chemical Name | LD50 Oral LD50 Dermal |   | LC50 Inhalation     |
|---------------|-----------------------|---|---------------------|
| Iron          | = 984 mg/kg (Rat)     | - | ·                   |
| Nickel        | > 9000 mg/kg (Rat)    | - | -                   |
| Silicon       | = 3160 mg/kg (Rat)    | - | ·                   |
| Manganese     | = 9 g/kg (Rat)        | - | -                   |
| Cobalt        | = 6170 mg/kg (Rat)    | - | > 10 mg/L (Rat) 1 h |

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization May cause sensitization by inhalation and skin contact

Mutagenic Effects No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC                 | NTP                    | OSHA |
|---------------|-------|----------------------|------------------------|------|
| Nickel        |       | Group 2B             | Reasonably Anticipated | X    |
|               |       | Group 1              |                        |      |
| Chromium      |       | Group 3              |                        |      |
| Cobalt        | A3    | Group 2A<br>Group 2B |                        | Х    |

Reproductive Toxicity

No information available.

STOT - single exposure

No information available.

**STOT - repeated exposure**Causes damage to organs through prolonged or repeated exposure.

Chronic Toxicity Elevated temperature processing such as welding and plasma arc cutting may release

hazardous fumes. Overexposure to metal fumes may cause pulmonary edema (fluid in the lungs) and methemaglobinemia. May also cause pulmonary fibrosis and lung cancer. Chronic exposure to manganese may cause impairment to the central nervous system including sluggishness, sleepiness, muscle weakness, loss of facial muscle control, edema,

emotional disturbances, spastic gait, and falling.

Target Organ EffectsRespiratory system. Skin.Aspiration HazardNo information available.

### Numerical measures of toxicity • - Product

The following values are calculated based on chapter 3.1 of the GHS document: LD50 Oral 389 mg/kg; Acute toxicity estimate 7500

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to Algae   | Toxicity to Fish  | Toxicity to Microorganisms | Daphnia Magna (Water<br>Flea)   |
|---------------|---|---|----------------------------|---|
| Iron          | -   | LC50 96 h: = 0.56 mg/L<br>semi-static (Cyprinus carpio)<br>LC50 96 h: = 13.6 mg/L<br>static (Morone saxatilis)  | -                          | -   |
| Nickel        | EC50 96 h: 0.174 - 0.311<br>mg/L static<br>(Pseudokirchneriella<br>subcapitata)<br>EC50 72 h: = 0.18 mg/L<br>(Pseudokirchneriella<br>subcapitata) | LC50 96 h: = 1.3 mg/L semi-<br>static (Cyprinus carpio)<br>LC50 96 h: = 10.4 mg/L<br>static (Cyprinus carpio)<br>LC50 96 h: > 100 mg/L<br>(Brachydanio rerio) | -                          | EC50 48 h: = 1 mg/L Static<br>(Daphnia magna)<br>EC50 48 h: > 100 mg/L<br>(Daphnia magna) |
| Cobalt        | <u> </u>  | LC50 96 h: > 100 mg/L static<br>(Brachydanio rerio)   | -                          | -   |

| Copper | EC50 96 h: 0.031 - 0.054   | LC50 96 h: 0.0068 - 0.0156           | - | EC50 48 h: = 0.03 mg/L |
|--------|----------------------------|--------------------------------------|---|------------------------|
|        | mg/L static                | mg/L (Pimephales                     |   | Static (Daphnia magna) |
|        | (Pseudokirchneriella       | promelas)                            |   |                        |
|        | subcapitata)               | LC50 96 h: < 0.3 mg/L static         |   |                        |
|        | EC50 72 h: 0.0426 - 0.0535 | (Pimephales promelas)                |   |                        |
|        | mg/L static                | LC50 96 h: = 0.052 mg/L              |   |                        |
|        | (Pseudokirchneriella       | flow-through (Oncorhynchus           |   |                        |
|        | subcapitata)               | mykiss)                              |   |                        |
|        |                            | LC50 96 h: = 0.112 mg/L              |   |                        |
|        |                            | flow-through (Poecilia               |   |                        |
|        |                            | reticulata)                          |   |                        |
|        |                            | LC50 96 h: = $0.2 \text{ mg/L flow}$ |   |                        |
|        |                            | through (Pimephales                  |   |                        |
|        |                            | promelas)                            |   |                        |
|        |                            | LC50 96 h: = 0.3 mg/L semi-          |   |                        |
|        |                            | static (Cyprinus carpio)             |   |                        |
|        |                            | LC50 96 h: = 0.8 mg/L static         |   |                        |
|        |                            | (Cyprinus carpio)                    |   |                        |
|        |                            | LC50 96 h: = 1.25 mg/L               |   |                        |
|        |                            | static (Lepomis macrochirus)         |   |                        |

Persistence and Degradability No information available.

**Bioaccumulation** No information available.

Other Adverse Effects
No information available.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Recover or recycle if possible. Dispose of in accordance with federal, state, and local

regulations

**Contaminated Packaging** Dispose of in accordance with federal, state, and local regulations.

| Chemical Name        | RCRA                        | RCRA - Bas                 | is for Listing                       | RCRA - D Series Wastes    | RCRA - U Series Wastes |
|----------------------|-----------------------------|----------------------------|--------------------------------------|---------------------------|------------------------|
| Nickel - 7440-02-0   | (hazardous constituent - no | Included in waste streams: |                                      |                           |                        |
|                      | waste number)               | F006                       | , F039                               |                           |                        |
| Chromium - 7440-47-3 |                             | F032, F034,                | aste streams:<br>F035, F037,<br>F039 | 5.0 mg/L regulatory level |                        |
|                      | Chemical Name               |                            |                                      | California Hazardous      | Waste                  |
|                      | Nickel                      |                            | Toxic powder<br>Ignitable powder     |                           |                        |
|                      | Chromium                    |                            | Toxic                                |                           |                        |
|                      |                             |                            | Corrosive                            |                           |                        |
|                      |                             |                            | Ignitable                            |                           |                        |
|                      | Manganese                   |                            |                                      | Ignitable powde           | er                     |
|                      | Molybdenum                  |                            | Ignitable powder                     |                           | er                     |
| Titanium             |                             | Ignitable powder           |                                      | er                        |                        |
| Copper               |                             | Toxic                      |                                      |                           |                        |
|                      | Cobalt                      |                            | Toxic powder                         |                           |                        |
|                      |                             |                            |                                      | Ignitable powde           |                        |

# **14. TRANSPORT INFORMATION**

**DOT** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA Complies DSL Complies

## Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No    | Weight % | SARA 313 - Threshold<br>Values % |
|---------------|-----------|----------|----------------------------------|
| Nickel        | 7440-02-0 | 1.5-37   | 0.1                              |
| Chromium      | 7440-47-3 | 11.5-26  | 1.0                              |
| Manganese     | 7439-96-5 | 0-2      | 1.0                              |
| Cobalt        | 7440-48-4 | 0-0.6    | 0.1                              |

### SARA 311/312 Hazard Categories

| Acute Health Hazard               | No |
|-----------------------------------|----|
| Chronic Health Hazard             | No |
| Fire Hazard                       | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard                   | No |

### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|---------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Nickel        |                                | X                      | X                         |                               |
| Copper        |                                | X                      | X                         |                               |

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name | Hazardous Substances RQs | <b>Extremely Hazardous Substances</b> | RQ                  |
|---------------|--------------------------|---------------------------------------|---------------------|
|               |                          | RQs                                   |                     |
| Nickel        | 100 lb                   |                                       | RQ 100 lb final RQ  |
|               |                          |                                       | RQ 45.4 kg final RQ |
| Chromium      |                          |                                       | RQ 5000 lb final RQ |
|               |                          |                                       | RQ 2270 kg final RQ |
| Copper        | 5000 lb                  |                                       | RQ 5000 lb final RQ |
|               |                          |                                       | RQ 2270 kg final RQ |

## U.S. State Regulations

## California Proposition 65

This product contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No    | California Prop. 65 |
|---------------|-----------|---------------------|
| Nickel        | 7440-02-0 | Carcinogen          |
| Cobalt        | 7440-48-4 | Carcinogen          |

### U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|---------------|------------|---------------|--------------|----------|--------------|
| Nickel        | X          | X             | X            | X        | X            |
| Chromium      |            | X             |              |          | Х            |

| Silicon    | X | X | X |   | Х |
|------------|---|---|---|---|---|
| Manganese  | Х | X | Х | Х | Х |
| Molybdenum | X | X | X |   | X |
| Titanium   | X |   |   |   |   |
| Cohalt     | X | X | X | X | X |

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

| 16. OTHER INFORMATION |                        |                |                   |                                    |  |
|-----------------------|------------------------|----------------|-------------------|------------------------------------|--|
| NFPA                  | <b>Health Hazard</b> 0 | Flammability 0 | Instability 0     | Physical and Chemical<br>Hazards - |  |
| <u>HMIS</u>           | Health Hazard 0        | Flammability 0 | Physical Hazard 0 | Personal Protection X              |  |

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Issuing Date26-Nov-2012Revision Date26-Nov-2012Revision NoteInitial Release.

# General Disclaimer

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

**End of Safety Data Sheet**