



Safety Data Sheet

Revised Date: 08-12-2015

FAWSDS-4

1. Identification

| | |
|--------------------------------------|--|
| Product identifier | C18080, C18150, C18661, C19025, C19400, C19700 |
| Other means of identification | |
| SDS number | FAWSDS-4 |
| Synonyms | - |
| Recommended use | None known. |
| Recommended restrictions | None known. |

Manufacturer/Importer/Supplier/Distributor information

| | |
|------------------------------|--|
| Manufacturer/Supplier | Fisk Alloy, Inc. PO Box 26, 10 Thomas Road, Hawthorne, NJ 07507, USA. |
| General Assistance | Call Fisk Alloy at: 973 825 8500. |
| E-Mail | Fiskalloy.com. |
| Contact Person | None known. |
| Emergency Telephone | FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300. |

2. Hazard(s) Identification

Classification of the substance or mixture Not classified.

Label elements

GHS-US Labeling No labeling applicable.

Hazard(s) not otherwise classified (HNOC)

This product is present in a massive form as an alloy. It does not present the same hazards when the individual components are in their powdered forms. The materials present in this product in their powdered forms present aquatic toxicity to the environment, pyrophoricity, flammability, self-heating capabilities, carcinogenicity, water reactivity, and acute toxicity. When processed or where dust is generated a combustible dust hazard may be present. Avoid generating dust, generating sparks, ignition sources, and take all precautions.

Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath. Under normal use and handling of the solid form of this material there are few health hazards. Cutting, welding, melting, grinding etc. of these materials will produce dust, fume or particulate containing the component elements of these materials. Exposure to the dust, fume or particulate of these materials may present significant health hazards. Exposure to dust or fume may cause irritation of the eyes, skin and respiratory tract. Fine



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particulates dispersed in air may present an explosion hazard.

3. Composition/information on ingredients

Substances:

| Name | CAS number | % |
|---------------------------|------------|---------|
| Copper | 7440-50-8 | 97-99 |
| Iron | 7439-89-6 | 0.0-3.0 |
| Nickel | 7440-02-0 | 0.0-1.2 |
| Magnesium | 7439-95-4 | 0.0-0.7 |
| Tin | 7440-31-5 | 0.0-1.1 |
| Zinc | 7440-66-6 | 0.0-0.2 |
| Phosphorous | 7723-14-0 | 0.0-0.4 |
| Chromium (Non-Hexavalent) | 7440-47-3 | 0.0-1.5 |

4. First-aid measures

| | |
|---|--|
| Inhalation | When symptoms occur: go into open air and ventilate suspected area. Keep at rest and in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists. |
| Skin contact | Cool skin rapidly with cold water after contact with molten product. Removal of solidified molten material from skin requires medical assistance. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Obtain medical attention if irritation persists. |
| Eye contact | Removal of solidified molten material from the eyes requires medical assistance. Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists. |
| Ingestion | Ingestion is unlikely due to physical state. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. |
| Most important symptoms/effects, acute and delayed | Inhalation: Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic taste in the mouth, |



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sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

Skin Contact: May cause an allergic skin reaction. Dust from physical alteration of this product causes skin irritation. Causes severe skin burns. Contact with fumes or metal powder will irritate skin. Contact with hot, molten metal will cause thermal burns. Dust may cause irritation in skin folds or by contact in combination with tight clothing. Mechanical damage via flying particles and chipped slag is possible.

Eye Contact: Dust may cause mechanical irritation to eyes, nose, throat, and lungs.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Copper: Overexposure to fumes may cause metal fume fever (chills, muscle aches, nausea, fever, dry throat, cough, weakness, lassitude); metallic or sweet taste; Discoloration of skin and hair. Tissue damage of mucous membranes may follow chronic dust exposure. Iron: Inhalation of iron oxide fumes undergoing decomposition may cause irritation and flu-like symptoms; otherwise iron oxide is not hazardous. Nickel: May cause a form of dermatitis known as nickel itch and intestinal irritation, which may cause disorders, convulsions and asphyxia. Tin: Has been shown to increase incidence of sarcoma in animal tests. Chronic exposure to tin dusts and fume may result in "stannosis", a mild form of pneumoconiosis. Zinc: Prolonged exposure to high concentrations of zinc fumes may cause "zinc shakes", an involuntary twitching of the muscles. Otherwise, zinc is non-toxic. Chromium: Certain hexavalent chromium compounds have been demonstrated to be carcinogenic on the basis of epidemiological investigations on workers and experimental studies in animals. Increased incidences of respiratory cancer have been found in chromium (VI) workers. There is an increased incidence of lung cancer in industrial workers exposed to chromium (VI) compounds. Please refer to IARC volume 23 for a more detailed discussion. Phosphorous: Long term phosphorus exposures may cause kidney and liver effects.

Indication of immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. Never



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give anything by mouth to an unconscious person.

5. Fire-fighting measures

Suitable extinguishing media

For localized powder fires, smother with dry sand, dry dolomite, sodium chloride or soda ash. Use fire-extinguishing media appropriate to fight surrounding fire.

Unsuitable extinguishing media

Do not use a heavy water stream. Use of heavy stream of water may spread fire. Do not use water when molten material is involved, may react violently or explosively on contact with water.

Specific hazards arising from the chemical

In molten state: reacts violently with water (moisture). Dust may cause an ignitable and/or an explosive atmosphere.

Special protective equipment and precautions for firefighters

Precautionary Measures Fire: Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures: Do not handle until all safety precautions have been read and understood. Do not breathe vapors from molten product. Avoid all eye and skin contact and do not breathe dust, fumes, and vapors.

For non-emergency personnel: Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.

For emergency personnel: Equip cleanup crew with proper protection. Ventilate area

Environmental precautions Methods and materials for containment and cleaning up

Prevent entry to sewers and public waters.

Contain and collect as any solid. Clear up spills immediately and dispose of waste safely. For particulates and dust: Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air. Use PPE described in Section 8. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up.

7. Handling and storage



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Precautions for safe handling

May generate flammable/explosive dusts or turnings when brushed, machined or ground. Use care during processing to minimize generation of dust. Where excessive dust may result, use approved respiratory protection equipment. Heating of product can release toxic or irritating fumes; ensure proper ventilation is employed, proper precautions are enforced, and applicable regulations are followed. Inhalation of fumes may cause metal fume fever.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry, cool and well-ventilated place.

Incompatible Materials: Strong acids, strong bases and strong oxidizers. Alkalis. Metal oxides. Water, humidity. Corrosive substances in contact with metals may produce flammable hydrogen gas.

8. Exposure controls/personal protection

Occupational exposure limits

| Country | Type | Copper | Nickel | Tin | Chromium (Non hexavalent) |
|-------------------------|------|----------------------------|----------------------------|----------------------------|----------------------------|
| | | Value (mg/m ³) | Value (mg/m ³) | Value (mg/m ³) | Value (mg/m ³) |
| Belgium | TWA | 0.2(a),1(b,i) | 1 | 2 | 0.5 |
| Brazil | TWA | - | - | - | - |
| Canada-Alberta | TWA | 0.2(a),1(b,i) | 1 | 2 | - |
| | STEL | 0.6(a),2(b,i) | 2 | 4 | 0.5 |
| Canada-British Columbia | TWA | 1(b,i),0.2(a) | 0.05 | 2 | 1.5 |
| Canada-Ontario | TWA | - | 1 | 2 | 0.5 |



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| | | | | | |
|---------------|------|---------------------|--------|---|-----|
| Canada-Quebec | TWA | 0.2(j),1(b,k) | 1 | 2 | - |
| China | TWA | 1(b), 0.2(a) | 1 | - | - |
| | STEL | - | - | - | 0.5 |
| Denmark | TWA | 1(b) | 0.05 | - | - |
| | STEL | - | - | - | - |
| France | TWA | 1(b,i),0.2(a) | 1 | - | 0.5 |
| | STEL | 2(b,i) | - | - | - |
| Germany | TWA | - | - | - | 2 |
| | STEL | - | - | - | - |
| Hong Kong | TWA | 0.2(a),1(b,i) | 1.5 | - | 2 |
| India | TWA | 0.2(a) | - | - | 0.5 |
| | STEL | - | - | - | - |
| Italy | - | - | - | - | - |
| Japan | TWA | - | - | - | - |
| Korea | TWA | 1(b,i), 0.1(a,f) | 1(c) | 2 | 0.5 |
| | STEL | 2(b,i) | - | - | 0.5 |
| Malaysia | TWA | 0.2(a),1(b,i) | 1.5(d) | 2 | - |
| Mexico | TWA | 0.2(a),1(b,k)) | 1 | - | 0.5 |
| | STEL | 2(a,b,k) | - | - | 0.5 |
| Poland | TWA | 0.2 | 0.25 | 2 | - |



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| | | | | | |
|---------------------|---------|----------------|--------|---|-----|
| | STEL | - | - | - | 0.5 |
| Portugal | - | - | - | - | - |
| Russia | TWA | 1/0.5 (MAC) | - | - | - |
| | STEL | - | - | - | - |
| Singapore | TWA | 0.2(a),1(b,i) | 1 | 2 | 0.5 |
| Sweden | LLV | 1(c), 0.2(f) | 0.5(c) | - | - |
| Taiwan, R. O. C. | TWA | 1(b,i) | 1 | 2 | 0.5 |
| United Kingdom | TWA | 0.2(a),1(b,i) | 0.1 | - | 1 |
| | STEL | 2(b,i) | - | - | 0.5 |
| USA ACGIH | TWA | - | 1.5 | - | - |
| USA OSHA | TWA | 1 | 1 | 2 | - |
| | Ceiling | - | - | - | 1 |
| USA NIOSH | TWA | 1 | 0.015 | 2 | 0.5 |

NOTE: a- fume, b-dust, c-total dust, d-inhalable fraction, e-inhalable dust, f-respirable dust, g-inhalable fume, h-respirable fume, i-mist, j-smoke, k-fog, l-aerosol, m-inhalable aerosol, n-respirable aerosol.

Appropriate engineering controls

Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. Ensure all national/local regulations are observed.

Individual protection measures, such as personal protective equipment



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Eye/face protection

Chemical goggles or safety glasses.

Skin protection

Hand protection

Wear chemically resistant protective gloves. If material is hot, wear thermally resistant protective gloves.

Other

Chemically resistant materials and fabrics. With molten material wear thermally protective clothing. If generating a dust, wash thoroughly after handling, especially before eating, drinking, or smoking. Wash contaminated clothing before reuse.

Respiratory protection

Respiratory protection not normally needed. If dusting occurs or fumes are generated above the established occupational exposure limits, use a NIOSH-approved half-face or full-face respirator equipped with High Efficiency Particulate (HEPA) filter cartridges.

General hygiene considerations

Do not eat, drink, or smoke while using this product in dust form.

9. Physical and chemical properties

Appearance

Red Metallic.

Physical state

Solid.

Form

Solid.

Color

Not available.

Odor

None.

Odor threshold

Not available.

pH

Not applicable.

Melting point/freezing point

L:1958-2000°F (Melting point)

S:1850-1985°F(Melting point)

Initial boiling point and boiling range

Not available.

Flash point

Not applicable.

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit –lower (%)

Not available.

Flammability limit –upper (%)

Not available.

Explosive limit - lower (%)

Not applicable.

Explosive limit - upper (%)

Not applicable.

Vapor pressure

Not applicable.

Vapor density

Not applicable.



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| | |
|--|-----------------|
| Relative density (Specific gravity) | 8.83-8.91 |
| Solubility(ies) | |
| Solubility (water) | Negligible. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not applicable. |
| Decomposition temperature | Not applicable. |
| Viscosity | Not applicable. |

10. Stability and reactivity

| | |
|---|---|
| Reactivity | Hazardous reactions will not occur under normal conditions. |
| Chemical stability | Stable under recommended storage conditions and stable in solid form. |
| Possibility of hazardous reactions | Hazardous polymerization will not occur. |
| Conditions to avoid | Avoid contact with carbon monoxide, particularly at temperatures between 50°C and 300°C, to prevent formation of nickel carbonyl which is toxic and a carcinogen. |
| Incompatible materials | Acetylene, chlorine. |
| Hazardous decomposition products | Inhalation of fumes may cause metal fume fever. Oxides of iron and carbon. |

11. Toxicological information

Information on likely routes of exposure

| | |
|-------------------------|---|
| Ingestion | Ingestion is likely to be harmful or have adverse effects. |
| Inhalation | Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath. |
| Skin contact | May cause an allergic skin reaction. Contact with fumes or metal powder will irritate skin. Contact with hot, molten metal will cause thermal burns. Dust may cause irritation in skin folds or by contact in combination with tight clothing. Mechanical damage via flying particles and chipped slag is possible. |
| Eye contact | Dust may cause mechanical irritation to eyes. |
| Chronic symptoms | In massive form, no hazard exists. If physically altered to present slivers, ribbons, dusts or fumes from molten material: Iron: Inhalation of iron oxide fumes undergoing decomposition may cause irritation and flu-like symptoms, otherwise iron oxide is not hazardous. Nickel: May cause a form of dermatitis |



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known as nickel itch and intestinal irritation, which may cause disorders, convulsions and asphyxia. Manganese: Chronic exposure can cause inflammation of the lung tissue, scarring the lungs (pulmonary fibrosis).

Numerical measures of toxicity – Ingredients:

| Components | Test | Species | Test Results |
|----------------------------|-----------------------------|---------|--------------|
| Copper(CAS#7440-50-8) | Inhalation LC ₅₀ | Rat | 0.733 mg/L |
| Iron (CAS#7439-89-6) | Oral LD ₅₀ | Rat | 30 g/kg |
| Nickel(CAS#7440-02-0) | Oral LD ₅₀ | Rat | >9 g/kg |
| Tin(CAS#7440-31-5) | Oral LD ₅₀ | Rat | 700 mg/kg |
| Zinc(CAS# 7440-66-6) | Oral LD ₅₀ | Rat | 2000mg/kg |
| | Inhalation LC ₅₀ | Rat | 5.41mg/l |
| Phosphorus(CAS# 7723-14-0) | Oral LD ₅₀ | Rat | 3.03 mg/kg |
| Chromium (CAS#7440-47-3) | Oral LD ₅₀ | Rat | > 5000 mg/kg |

| | |
|---|--|
| Skin corrosion/irritation | Not Classified. |
| Serious eye damage/eye irritation | Not Classified. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not Classified. |
| Skin sensitization | Not Classified. |
| Germ cell mutagenicity | Not Classified. This product is not known or reported to be mutagenic. Nickel has been shown to be mutagenic in <i>in vitro</i> studies. |
| Carcinogenicity | Not Classified The International Agency for Research on Cancer (IARC) has classified nickel as possibly carcinogenic to humans, group 2B. The National Toxicology Program (NTP) classifies nickel as a known human carcinogen as Reasonably anticipated to be human carcinogens (RAHC). |
| Reproductive toxicity | Not Classified. This product is not known or reported to cause reproductive or developmental effects. Exposure of male rats to high concentrations of nickel caused testicular degeneration. However, symptoms of systemic toxicity, including severe weight loss, were also observed at the same concentrations indicating that the testicular effects were secondary to the frank toxicity. Exposure at these levels is highly unlikely under normal working conditions. |
| Specific target organ toxicity - single exposure | Not Classified. |
| Specific target organ toxicity - repeated exposure | Not Classified. |
| Aspiration hazard | Not Classified. |



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12. Ecological information

Numerical measures of toxicity

| Components | Test | Species | Test Results |
|----------------------------|----------------------------|---|------------------------|
| Copper(CAS#7440-50-8) | Fish LC ₅₀ | oncorhynchus mykiss (<i>Salmo gairdneri</i>) | 0.017mg/l,96 Hours |
| | Crustacea NOEC | Water Flea (<i>Daphnia magna</i>) | 0.002mg/l,21days |
| | AlgaeEC ₅₀ | Korshikov(<i>Selenastrum capricornutum</i>) | 0.085mg/l,3Weeks |
| Iron (CAS#7439-89-6) | Fish LC ₅₀ | Zebrafish (<i>Danio rerio</i>) | > 10000 mg/l, 96 Hours |
| | Crustacea LC ₅₀ | Water Flea (<i>Daphnia magna</i>) | 9.6 mg/l, 48 Hours |
| Nickel (CAS#7440-02-0) | Fish LC ₅₀ | Rock bass (<i>Ambloplites rupestris</i>) | 2.48 mg/l, 96 Hours |
| | Crustacea LC ₅₀ | Water Flea (<i>Daphnia magna</i>) | 0.51 mg/l, 48 Hours |
| Tin(CAS#7440-31-5) | Fish LC ₅₀ | Fathead Minnows (<i>Pimephales promelas</i>) | 0.01240 mg/l, 96 Hours |
| | Algae NOEC | Marine diatom | 0.2 mg/l, 72 Hours |
| Zinc(CAS#7440-66-6) | Fish LC ₅₀ | Mottled sculpin (<i>Cottus bairdii</i>) | 0.439mg/l, 96 Hours |
| | Crustacea LC ₅₀ | Water Flea (<i>Daphnia magna</i>) | 1.833mg/l,48 Hours |
| Phosphorus(CAS# 7723-14-0) | Fish LC ₅₀ | Blue gill (<i>Lepomis macrochirus</i>) | 0.0024mg/l,96Hours |
| | Crustacea EC ₅₀ | Water Flea (<i>Daphnia magna</i>) | 0.030mg/L,48Hours |
| Chromium(CAS# 7440-47-3) | Fish LC ₅₀ | Mozambique tilapia (<i>Oreochromis mossambicus</i>) | 139.5mg/l,96 Hours |
| | Crustacea LC ₅₀ | <i>Ceriodaphnia reticulate</i> | 0.045mg/l,48Hours |
| | AlgaeEC ₅₀ | Green algae (<i>Dunaliella tertiolecta</i>) | 17.8mg/l,72Hours |

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No known significant effects or critical hazards.

13. Disposal considerations

Disposal instructions

Dispose of in accordance with local regulations. Do not contaminate ponds, waterways or ditches with chemical or



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Contaminated packaging used containers.
None known.

14. Transport information

In Accordance with DOT Not regulated for transport.
In Accordance with IMDG Not regulated for transport.
In Accordance with IATA Not regulated for transport.

15. Regulatory information

US federal regulations Substance is on the U.S. EPA TSCA Inventory List.

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

None of the components in this product is listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Copper(CAS#7440-50-8) Listed
Nickel(CAS#7440-02-0) Listed
Tin(CAS#7440-31-5) Listed
Phosphorus(CAS# 7723-14-0) Listed
Chromium(CAS# 7440-47-3) Listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper(CAS#7440-50-8) Listed
Nickel(CAS#7440-02-0) Listed
Zinc(CAS#7440-66-6) Listed
Phosphorus(CAS# 7723-14-0) Listed
Chromium(CAS# 7440-47-3) Listed

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

SARA 302 Extremely hazardous substance

| Chemical Name | CAS Number | Reportable Quantity | Threshold planning quantity | Threshold planning quantity, lower value | Threshold planning quantity, upper value |
|---------------|------------|---------------------|-----------------------------|--|--|
| Phosphorous | 7723-14-0 | | 100 | | |



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SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

| Name | CAS number | % by wt. |
|----------------------------|------------|----------|
| Copper | 7440-50-8 | 97-99 |
| Nickel | 7440-02-0 | 0.0-1.2 |
| Zinc | 7440-66-6 | 0.0-0.2 |
| Phosphorus | 7723-14-0 | 0.0-0.4 |
| Chromium (Non- Hexavalent) | 7440-47-3 | 0.0-1.5 |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

None of the components in this product is listed.

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

None of the components in this product is listed.

Safe Drinking Water Act (SDWA)

US State regulations

WARNING: This product contains chemicals known to the State of California to cause cancer.

US. Massachusetts RTK – Substance List

- Copper(CAS#7440-50-8)
- Nickel(CAS#7440-02-0)
- Tin(CAS#7440-31-5)
- Magnesium(CAS#7439-95-4)
- Zinc(CAS#7440-66-6)
- Phosphorus(CAS# 7723-14-0)
- Chromium(CAS# 7440-47-3)

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

- Copper(CAS#7440-50-8)
- Nickel(CAS#7440-02-0)
- Tin(CAS#7440-31-5)
- Magnesium(CAS#7439-95-4)
- Zinc(CAS#7440-66-6)
- Phosphorus(CAS# 7723-14-0)
- Chromium(CAS# 7440-47-3)

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

- Copper(CAS#7440-50-8)
- Nickel(CAS#7440-02-0)
- Tin(CAS#7440-31-5)
- Magnesium(CAS#7439-95-4)
- Zinc(CAS#7440-66-6)
- Phosphorus(CAS# 7723-14-0)
- Chromium(CAS# 7440-47-3)

US. California Proposition 65



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US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance Nickel(CAS#7440-02-0)

Canada regulations

This substance has not been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR).

International Inventories

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

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

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

| | |
|---------------|---|
| Issue date | - |
| Revision date | 08-04-2015 |
| Version # | - |
| References | ACGIH: Documentation of the Threshold Limit Values and Biological Exposure indices ECHA: European Chemicals Agency HSDB: Hazardous Substances Data Bank GESTIS : Information system on hazardous substances of the German Social Accident Insurance IARC: International Agency for Research on Cancer |



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NIOSH: The National Institute for Occupational Safety and Health

NTP: National Toxicology Program

NLM: Hazardous Substances Data Base

OECD : Organization for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

Disclaimer: The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations.