

1. Identification

Product identifier Specialty Copper

Other means of identification
Synonyms PCN38 * CU/NI * AMEBRAZE 84 * AMEBRAZE 84 F SERIES

Recommended use Not available.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information
Company name Ametek Specialty Metals
Address 1085 Rte 519
Eighty Four, PA 15330
US
Telephone 1-724-225-2658
E-mail Not available.

Emergency phone number 1-703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards
Sensitization, skin Category 1
Carcinogenicity Category 2
Specific target organ toxicity, repeated exposure Category 1 (Lung)
Specific target organ toxicity, repeated exposure Category 2 (Central Nervous System)

Environmental hazards
Hazardous to the aquatic environment, acute hazard Category 1
Hazardous to the aquatic environment, long-term hazard Category 1

OSHA defined hazards Combustible dust

Label elements



Signal word Danger

Hazard statement May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs (Lung) through prolonged or repeated exposure. May cause damage to organs (Central Nervous System) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. May form combustible dust concentrations in air.

Precautionary statement
Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Prevent dust accumulation to minimize explosion hazard. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Observe good industrial hygiene practices.

| | |
|--|---|
| Response | If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage. |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Store locked up. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|---------------|------------|---------|
| Copper | 7440-50-8 | 37 - 64 |
| Nickel | 7440-02-0 | 36 - 50 |
| Manganese | 7439-96-5 | 0 - 18 |
| Silicon | 7440-21-3 | 0 - 2.2 |
| Boron | 7440-42-8 | 0 - 2.0 |
| Iron | 7439-89-6 | 0 - 1.0 |

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The alloy contains additional alloying elements at concentrations below disclosure requirements. At temperatures above the melting point the alloys may liberate fumes containing oxides of alloying elements.

4. First-aid measures

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|---|---|
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. |
| Eye contact | Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | Narcosis. Behavioral changes. Decrease in motor functions. Dusts may irritate the respiratory tract, skin and eyes. Coughing. Discomfort in the chest. Shortness of breath. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |
| General information | IF exposed or concerned: Get medical advice/attention. 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. Wash contaminated clothing before reuse. |

5. Fire-fighting measures

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| Suitable extinguishing media | Special powder against metal fires. Dry sand. |
| Unsuitable extinguishing media | Do not use water or halogenated extinguishing media. Do not use water on molten metal: Explosion hazard could result. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. Solid metal is not flammable; however, finely divided metallic dust or powder may form an explosive mixture with air. In a fire, nickel may form nickel carbonyl, a highly toxic substance and known carcinogen. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do it without risk. |
| General fire hazards | Powder may burn. Dust is an explosion hazard. |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.

Methods and materials for containment and cleaning up

Avoid dust formation. Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. The vacuum cleaner should be explosion-proofed. If not possible, gently moisten dust before it is collected with shovel, broom or the like. This material and its container must be disposed of as hazardous waste.

Environmental precautions

Avoid release to the environment. Do not contaminate water.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Persons susceptible for allergic reactions should not handle this product. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

| Components | Type | Value | Form |
|---------------------------|---------|--|-------------------------------------|
| Copper (CAS 7440-50-8) | PEL | 1 mg/m ³ 0.1 mg/m ³ | Dust and mist. Fume. |
| Manganese (CAS 7439-96-5) | Ceiling | 5 mg/m ³ | Fume. |
| Nickel (CAS 7440-02-0) | PEL | 1 mg/m ³ | |
| Silicon (CAS 7440-21-3) | PEL | 5 mg/m ³ 15 mg/m ³ | Respirable fraction. Total dust. |

ACGIH

| Components | Type | Value | Form |
|------------------------|------|--|-------------------------|
| Copper (CAS 7440-50-8) | TWA | 1 mg/m ³ 0.2 mg/m ³ | Dust and mist. Fume. |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|---------------------------|------|---|---|
| Copper (CAS 7440-50-8) | TWA | 1 mg/m ³ 0.2 mg/m ³ | Dust and mist. Fume. |
| Manganese (CAS 7439-96-5) | TWA | 0.1 mg/m ³ 0.02 mg/m ³ | Inhalable fraction. Respirable fraction. |
| Nickel (CAS 7440-02-0) | TWA | 1.5 mg/m ³ | Inhalable fraction. |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|---------------------------|------|--|----------------|
| Copper (CAS 7440-50-8) | TWA | 1 mg/m ³ | Dust and mist. |
| Manganese (CAS 7439-96-5) | STEL | 3 mg/m ³ | Fume. |
| Nickel (CAS 7440-02-0) | TWA | 1 mg/m ³ 0.015 mg/m ³ | Fume. |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|--|--|---|----------------------|
| Silicon (CAS 7440-21-3) | TWA | 5 mg/m ³ 10 mg/m ³ | Respirable. Total |
| Biological limit values | No biological exposure limits noted for the ingredient(s). | | |
| Exposure guidelines | Follow standard monitoring procedures. | | |
| Appropriate engineering controls | Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high. Special ventilation should be used to convey finely divided metallic dust generated by grinding, sawing etc., in order to eliminate explosion hazards. | | |
| Individual protection measures, such as personal protective equipment | | | |
| Eye/face protection | Wear dust-resistant safety goggles where there is danger of eye contact. In addition to safety glasses or goggles, a welding helmet with appropriate shaded shield is required during welding, burning, or brazing. A face shield is recommended, in addition to safety glasses or goggles, during sawing, grinding, or machining. | | |
| Skin protection | | | |
| Hand protection | Wear suitable protective gloves to prevent cuts and abrasions. When material is heated, wear gloves to protect against thermal burns. Suitable gloves can be recommended by the glove supplier. | | |
| Other | Wear suitable protective clothing. | | |
| Respiratory protection | In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter. When engineering controls are not sufficient to lower exposure levels below the applicable exposure limit, use a NIOSH approved respirator for dusts. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever work place conditions warrant a respirator's use. Seek advice from local supervisor. | | |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. | | |
| General hygiene considerations | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Private clothes and working clothes should be kept separately. Contaminated uniforms should be laundered separately from other clothing to prevent potential cross-contamination. If possible, an industrial laundry service should be used to eliminate the possibility of contaminating the home environment. Handle in accordance with good industrial hygiene and safety practices. Observe any medical surveillance requirements. | | |

9. Physical and chemical properties

Appearance

| | |
|--|-------------------|
| Physical state | Solid. |
| Form | Powder. |
| Color | Gray. |
| Odor | Odorless. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Combustible dust. |

Upper/lower flammability or explosive limits

| | |
|---------------------------------------|----------------|
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |

| | |
|--|----------------|
| Relative density | 8.6 - 13.5 |
| Solubility(ies) | |
| Solubility (water) | Insoluble |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |

10. Stability and reactivity

| | |
|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Keep away from heat, sparks and open flame. Minimize dust generation and accumulation. Contact with incompatible materials. |
| Incompatible materials | Strong acids. Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | Dust may irritate respiratory system. May cause damage to organs through prolonged or repeated exposure by inhalation. |
| Skin contact | May cause an allergic skin reaction. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | Expected to be a low ingestion hazard. |

| | |
|---|--|
| Symptoms related to the physical, chemical and toxicological characteristics | Narcosis. Behavioral changes. Decrease in motor functions. Dusts may irritate the respiratory tract, skin and eyes. Coughing. Discomfort in the chest. Shortness of breath. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects. |
|---|--|

Information on toxicological effects

| | |
|-----------------------|-----------------------------------|
| Acute toxicity | Not expected to be acutely toxic. |
|-----------------------|-----------------------------------|

| Components | Species | Test Results |
|---------------------------|----------------|------------------------------------|
| Boron (CAS 7440-42-8) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Rat | 650 mg/kg |
| Manganese (CAS 7439-96-5) | | |
| Acute | | |
| <i>Inhalation</i> | | |
| LC50/LC90 | Rat | > 1500 mg/m ³ , 4 hours |
| <i>Oral</i> | | |
| LD50 | Rat | 9000 mg/kg |
| Silicon (CAS 7440-21-3) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Rat | 3160 mg/kg |

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| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. |
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|--|--|
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. |
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Respiratory or skin sensitization

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|----------------------------------|--------------------------------------|
| Respiratory sensitization | Not a respiratory sensitizer. |
| Skin sensitization | May cause an allergic skin reaction. |

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|---|---|
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | Suspected of causing cancer. |
| IARC Monographs. Overall Evaluation of Carcinogenicity | |
| Nickel (CAS 7440-02-0) | 2B Possibly carcinogenic to humans. |
| NTP Report on Carcinogens | |
| Nickel (CAS 7440-02-0) | Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen. |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) | |
| Not regulated. | |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Causes damage to organs (Lung) through prolonged or repeated exposure. May cause damage to organs (Central Nervous System) through prolonged or repeated exposure. |
| Aspiration hazard | Due to the physical form of the product it is not an aspiration hazard. |
| Chronic effects | Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. |

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

| Components | Species | Test Results |
|------------------------|---|--------------------------------------|
| Iron (CAS 7439-89-6) | | |
| Aquatic | | |
| Fish | LC50 Channel catfish (<i>Ictalurus punctatus</i>) | > 500 mg/l, 96 Hours |
| Nickel (CAS 7440-02-0) | | |
| Aquatic | | |
| Crustacea | EC50 Water flea (<i>Daphnia magna</i>) | 1 mg/l, 48 hours 1 mg/l, 48 Hours |
| | LC50 Calanoid copepod (<i>Eurytemora affinis</i>) | 7.35 - 12.12 mg/l, 96 hours |

| | |
|--------------------------------------|--|
| Persistence and degradability | The product is not expected to be readily biodegradable. |
| Bioaccumulative potential | No data available. Metal powders in water or soil may form metal oxides or other metal compounds that could become bioavailable and harm aquatic or terrestrial organisms. |
| Mobility in soil | Alloys in massive forms are not mobile in the environment. |
| Other adverse effects | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. |

13. Disposal considerations

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|--|--|
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Recover and recycle, if practical. Solid metal and alloys in the form of particles may be reactive. Its hazardous characteristics, including fire and explosion, should be determined prior to disposal. Dispose of in accordance with local regulations. |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

14. Transport information

| | |
|--------------------------------|---|
| DOT | |
| UN number | UN3077 |
| UN proper shipping name | Environmentally hazardous substances, solid, n.o.s. |

Transport hazard class(es)

Class 9
Subsidiary risk -
Label(s) 9

Packing group III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33

Packaging exceptions 155

Packaging non bulk 213

Packaging bulk 240

Reportable Quantity (RQ) for Nickel must be 100 LBS contained per package. Non-Bulk packaging equates to < 880 lbs (400 kgs) per package; Bulk packaging equates to > 880 lbs (400 kgs). For hazardous determination on Non-Bulk packaging, please refer to the material certification for the specific shipment. All Bulk packaging would meet or exceed the RQ value and is considered hazardous.

IATA

UN number UN3077

UN proper shipping name Environmentally hazardous substance, solid, n.o.s.

Transport hazard class(es)

Class 9
Subsidiary risk -

Packing group III

Environmental hazards Yes

ERG Code 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Reportable Quantity (RQ) for Nickel must be 100 LBS contained per package. Certification can be reviewed to determine specific RQ value of Nickel. Non-Bulk packaging equates to < 880 lbs (400 kgs) per package; Bulk packaging equates to > 880 lbs (400 kgs). For hazardous determination on Non-Bulk packaging, please refer to the material certification for the specific shipment. All Bulk packaging would meet or exceed the RQ value and is considered hazardous.

IMDG

UN number UN3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport hazard class(es)

Class 9
Subsidiary risk -

Packing group III

Environmental hazards

Marine pollutant Yes

EmS F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Reportable Quantity (RQ) for Nickel must be 100 LBS contained per package. Certification can be reviewed to determine specific RQ value of Nickel. Non-Bulk packaging equates to < 880 lbs (400 kgs) per package; Bulk packaging equates to > 880 lbs (400 kgs). For hazardous determination on Non-Bulk packaging, please refer to the material certification for the specific shipment. All Bulk packaging would meet or exceed the RQ value and is considered hazardous.

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

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

| | |
|---------------------------|--------|
| Copper (CAS 7440-50-8) | LISTED |
| Manganese (CAS 7439-96-5) | LISTED |
| Nickel (CAS 7440-02-0) | LISTED |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| Copper | 7440-50-8 | 37 - 64 |
| Nickel | 7440-02-0 | 36 - 50 |
| Manganese | 7439-96-5 | 0 - 18 |

Other federal regulations

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

Manganese (CAS 7439-96-5)

Nickel (CAS 7440-02-0)

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

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Copper (CAS 7440-50-8)

Manganese (CAS 7439-96-5)

Nickel (CAS 7440-02-0)

Silicon (CAS 7440-21-3)

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

Boron (CAS 7440-42-8)

Copper (CAS 7440-50-8)

Manganese (CAS 7439-96-5)

Nickel (CAS 7440-02-0)

Silicon (CAS 7440-21-3)

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

Copper (CAS 7440-50-8)

Manganese (CAS 7439-96-5)

Nickel (CAS 7440-02-0)

Silicon (CAS 7440-21-3)

US. Rhode Island RTK

Copper (CAS 7440-50-8)

Manganese (CAS 7439-96-5)

Nickel (CAS 7440-02-0)

US. California Proposition 65

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

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Nickel (CAS 7440-02-0)

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| 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 | 02-September-2015 |
| Revision date | 20-May-2016 |
| Version # | 03 |
| Further information | Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling. |
| HMIS® ratings | Health: 3* Flammability: 1 Physical hazard: 0 |
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