



SAFETY DATA SHEET

MATERION

1. Identification

| | |
|---|--|
| Product identifier | Copper Beryllium Alloy By Products |
| Other means of identification | |
| SDS number | A24 |
| Synonyms | Beryllium Copper Alloy By Products, Copper Beryllium Alloy Dross |
| Manufacturer/Importer/Supplier/Distributor information | |
| Manufacturer | |
| Company name | Materion Brush Inc. |
| Address | 6070 Parkland Boulevard Mayfield Heights, OH 44124 United States |
| Telephone | 1.800.862.4118 |
| Website | www.materion.com |
| E-mail | ehs@materion.com |
| Contact person | Theodore Knudson |
| Emergency phone number | 1.800.862.4118 |

2. Hazard(s) identification

| | | |
|------------------------------|---|---------------------------------|
| Physical hazards | Not classified. | |
| Health hazards | Sensitization, respiratory | Category 1 |
| | Sensitization, skin | Category 1 |
| | Carcinogenicity | Category 2 |
| | Specific target organ toxicity, repeated exposure | Category 1 (Respiratory system) |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |

Label elements



| | |
|--------------------------------|---|
| Signal word | Danger |
| Hazard statement | May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer. Causes damage to organs (respiratory system) through prolonged or repeated exposure by inhalation. |
| Precautionary statement | |
| Prevention | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Do not breathe dust/fume. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. |
| Response | If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. |
| Storage | 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 | For further information, please contact the Product Stewardship Department at +1.800.862.4118. |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--------------------------|--------------------------|----------------|---------|
| Copper | | 7440-50-8 | 65 - 90 |
| Copper Oxides (mixed) | | Not Applicable | 5 - 15 |
| Durasoil | | Trade Secret | 2 - 4 |
| Beryllium | | 7440-41-7 | 0.1 - 2 |
| Aluminum | | 7429-90-5 | 0.1 - 1 |
| Aluminum Oxides (mixed) | | Not Applicable | 0.1 - 1 |
| Beryllium Oxides (mixed) | | Not Applicable | 0.1 - 1 |
| Cobalt | | 7440-48-4 | 0.1 - 1 |
| Cobalt Oxides (mixed) | | Not Applicable | 0.1 - 1 |
| Nickel | | 7440-02-0 | 0.1 - 1 |
| Nickel Oxides (mixed) | | Not Applicable | 0.1 - 1 |
| Silica | | 14808-60-7 | 0.1 - 1 |
| Zirconium | | 7440-67-7 | 0.1 - 1 |

4. First-aid measures

| | |
|---|--|
| Inhalation | If symptoms develop move victim to fresh air. For breathing difficulties, oxygen may be necessary. Breathing difficulty caused by inhalation of particulate requires immediate removal to fresh air. If breathing has stopped, perform artificial respiration and obtain medical help. |
| Skin contact | Take off contaminated clothing and wash before reuse. Thoroughly wash skin cuts or wounds to remove all particulate debris from the wound. Seek medical attention for wounds that cannot be thoroughly cleansed. Treat skin cuts and wounds with standard first aid practices such as cleansing, disinfecting and covering to prevent wound infection and contamination before continuing work. Obtain medical help for persistent irritation. Material accidentally implanted or lodged under the skin must be removed. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if symptoms persist. |
| Ingestion | If swallowed, seek medical advice immediately and show this container or label. Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. |
| Most important symptoms/effects, acute and delayed | May cause allergic skin reaction. May cause allergic respiratory reaction. Prolonged exposure may cause chronic effects. |

Indication of immediate medical attention and special treatment needed

Treatment of Chronic Beryllium Disease: There is no known treatment which will cure chronic beryllium disease. Prednisone or other corticosteroids are the most specific treatment currently available. They are directed at suppressing the immunological reaction and can be effective in diminishing signs and symptoms of chronic beryllium disease. In cases where steroid therapy has had only partial or minimal effectiveness, other immunosuppressive agents, such as cyclophosphamide, cyclosporine, or methotrexate, have been used. In view of the potential side effects of all the immunosuppressive medications, including steroids such as prednisone, they should be used only under the direct care of a physician. Other treatment, such as oxygen, inhaled steroids or bronchodilators, may be prescribed by some physicians and can be effective in selected cases. In general, treatment is reserved for cases with significant symptoms and/or significant loss of lung function. The decision about when and with what medication to treat is a judgment situation for individual physicians.

In their 2014 official statement on the Diagnosis and Management of Beryllium Sensitivity and Chronic Beryllium Disease, the American Thoracic Society states that "it seems prudent for workers with BeS to avoid all future occupational exposure to beryllium."

The effects of continued low exposure to beryllium are unknown for individuals who are sensitized to beryllium or who have a diagnosis of chronic beryllium disease. It is generally recommended that persons who are sensitized to beryllium or who have CBD terminate their occupational exposure to beryllium.

General information

If exposed or concerned: get medical attention/advice. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. As supplied, there is no immediate medical risk with beryllium products in article form. First aid measures provided are related to particulate containing beryllium.

5. Fire-fighting measures

Suitable extinguishing media

The product is non-combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use water to extinguish fires around operations involving molten metal due to the potential for steam explosions.

Specific hazards arising from the chemical

Not applicable.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus. Wear suitable protective equipment.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.

Specific methods

Pressure-demand self-contained breathing apparatus must be worn by firefighters or any other persons potentially exposed to the particulate released during or after a fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment and clothing during clean-up. Avoid contact with skin or inhalation of spillage, dust or vapor. Avoid generation and spreading of dust. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

Methods and materials for containment and cleaning up

Clean up in accordance with all applicable regulations.

Environmental precautions

Avoid release to the environment. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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. Do not breathe dust/fume. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. Wash thoroughly after handling. When using, do not eat, drink or smoke. Contaminated work clothing must not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Keep locked-up. Avoid contact with acids and alkalis. Avoid contact with oxidizing agents.

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

| Components | Type | Value |
|---------------------------|------|--|
| Beryllium (CAS 7440-41-7) | STEL | 0.002 mg/m3 |
| | TWA | 0.002 mg/m3 (as beryllium) 0.0002 mg/m3 |

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

| Components | Type | Value | Form |
|--------------------------|------|------------|----------------------|
| Aluminum (CAS 7429-90-5) | PEL | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| Cobalt (CAS 7440-48-4) | PEL | 0.1 mg/m3 | Dust and fume. |
| Copper (CAS 7440-50-8) | PEL | 1 mg/m3 | Dust and mist. |
| | | 0.1 mg/m3 | Fume. |
| Nickel (CAS 7440-02-0) | PEL | 1 mg/m3 | |
| Silica (CAS 14808-60-7) | PEL | 0.05 mg/m3 | Respirable dust. |

US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components | Type | Value | Form |
|--------------------------|------|-----------|----------------------|
| Aluminum (CAS 7429-90-5) | TWA | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |
| | | 15 mppcf | Respirable fraction. |
| Silica (CAS 14808-60-7) | TWA | 0.1 mg/m3 | Respirable. |
| | | 2.4 mppcf | Respirable. |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|---------------------------|------|------------------------------|----------------------|
| Aluminum (CAS 7429-90-5) | TWA | 1 mg/m3 | Respirable fraction. |
| Beryllium (CAS 7440-41-7) | TWA | 0.00005 mg/m3 (as beryllium) | Inhalable fraction. |
| Cobalt (CAS 7440-48-4) | TWA | 0.02 mg/m3 | |
| Copper (CAS 7440-50-8) | TWA | 1 mg/m3 | Dust and mist. |
| | | 0.2 mg/m3 | Fume. |
| Nickel (CAS 7440-02-0) | TWA | 1.5 mg/m3 | Inhalable fraction. |
| Silica (CAS 14808-60-7) | TWA | 0.025 mg/m3 | Respirable fraction. |
| Zirconium (CAS 7440-67-7) | STEL | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|--------------------------|------|----------|------------------------------------|
| Aluminum (CAS 7429-90-5) | TWA | 5 mg/m3 | Respirable. |
| | | 5 mg/m3 | Welding fume or pyrophoric powder. |
| | | 10 mg/m3 | Total |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|---------------------------|---------|-----------------------------|------------------|
| Beryllium (CAS 7440-41-7) | Ceiling | 0.0005 mg/m3 (as beryllium) | |
| Cobalt (CAS 7440-48-4) | TWA | 0.05 mg/m3 | Dust and fume. |
| Copper (CAS 7440-50-8) | TWA | 1 mg/m3 | Dust and mist. |
| | | 0.1 mg/m3 | Fume. |
| Nickel (CAS 7440-02-0) | TWA | 0.015 mg/m3 | |
| Silica (CAS 14808-60-7) | TWA | 0.05 mg/m3 | Respirable dust. |
| Zirconium (CAS 7440-67-7) | STEL | 10 mg/m3 | |
| | TWA | 5 mg/m3 | |

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

| Components | Type | Value | Form |
|---------------------------|---------|----------------------------|----------------------|
| Aluminum (CAS 7429-90-5) | PEL | 5 mg/m3 | Welding fume. |
| | | 5 mg/m3 | Respirable fraction. |
| | | 5 mg/m3 | Pyrophoric powder. |
| | | 10 mg/m3 | Total dust. |
| Beryllium (CAS 7440-41-7) | Ceiling | 0.025 mg/m3 (as beryllium) | |
| | PEL | 0.0002 (as beryllium) | |
| Cobalt (CAS 7440-48-4) | PEL | 0.02 mg/m3 | Dust and fume. |
| Copper (CAS 7440-50-8) | PEL | 1 mg/m3 | Dust and mist. |
| | | 0.1 mg/m3 | Fume. |
| Nickel (CAS 7440-02-0) | PEL | 0.5 mg/m3 | |
| Silica (CAS 14808-60-7) | PEL | 0.05 mg/m3 | Respirable dust. |

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|------------------------|---------|-------------|----------|---------------|
| Cobalt (CAS 7440-48-4) | 15 µg/l | Cobalt | Urine | * |

* - For sampling details, please see the source document.

Exposure guidelines

Based on joint research conducted with the National Institute for Occupational Safety and Health (NIOSH), Materion adopted an 8 element Beryllium Worker Protection Model (BWPM) which includes the use of a recommended exposure guideline (REG) for airborne beryllium of 0.2 µg/m3 as a time-weighted average (TWA) limit for an 8-hour work day. Subsequent NIOSH studies have shown that the BWPM has reduced but not eliminated the risk of beryllium sensitization and chronic beryllium disease (CBD) in workers. Information on the BWPM can be found at www.beryllium-safety.com or by contacting Materion at +1 800.862.4118. In January 2017, OSHA issued a comprehensive occupational health standard for beryllium which includes a Permissible Exposure Limit (PEL) of 0.2 µg/m3 as an 8-hour TWA. In its evaluation, OSHA concluded that “despite the reduction in risk expected with the new PEL, the risks of CBD and cancer to workers with average exposure levels of 0.2 µg/m3 are still clearly significant.” (Preamble to Final Rule, Occupational Exposure to Beryllium, Docket #OSHA-H005C-2006-0870, at 316.) Therefore, Materion recommends that beryllium users not only comply with the OSHA Beryllium Standard and carefully apply all elements of the BWPM, but reduce airborne exposures to the lowest feasible level.

| | |
|--|---|
| Appropriate engineering controls | Ensure adequate ventilation, especially in confined areas. Whenever possible, the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne particulate. Where utilized, exhaust inlets to the ventilation system must be positioned as close as possible to the source of airborne generation. Avoid disruption of the airflow in the area of a local exhaust inlet by equipment such as a man-cooling fan. Check ventilation equipment regularly to ensure it is functioning properly. Provide training on the use and operation of ventilation to all users. Use qualified professionals to design and install ventilation systems. |
| Individual protection measures, such as personal protective equipment | |
| Eye/face protection | Wear approved safety glasses, goggles, face shield and/or welder's helmet when risk of eye injury is present, particularly during operations that generate dust, mist or fume. |
| Skin protection | |
| Hand protection | Wear gloves to prevent contact with particulate or solutions. Wear gloves to prevent metal cuts and skin abrasions during handling. |
| Other | Protective overgarments or work clothing must be worn by persons who may become contaminated with particulate during activities. Skin contact with this material may cause, in some sensitive individuals, an allergic dermal response. Particulate that becomes lodged under the skin has the potential to induce sensitization and skin lesions. |
| Respiratory protection | When airborne exposures exceed or have the potential to exceed the occupational exposure limits, approved respirators must be used as specified by an Industrial Hygienist or other qualified professional. Respirator users must be medically evaluated to determine if they are physically capable of wearing a respirator. Quantitative and/or qualitative fit testing and respirator training must be satisfactorily completed by all personnel prior to respirator use. Users of tight fitting respirators must be clean shaven on those areas of the face where the respirator seal contacts the face. Use pressure-demand airline respirators when performing jobs with high potential exposures such as changing filters in a baghouse air cleaning device. |
| Thermal hazards | Not applicable. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. |

9. Physical and chemical properties

Appearance

| | |
|---|--|
| Physical state | Solid. |
| Form | Solid. Various shapes. |
| Color | Reddish-brown |
| Odor | None. |
| Odor threshold | Not applicable. |
| pH | Not applicable. |
| Melting point/freezing point | 1750 - 2000 °F (954.44 - 1093.33 °C) / Not applicable. |
| Initial boiling point and boiling range | Not applicable. |
| Flash point | Not applicable. |
| Evaporation rate | Not applicable. |
| Flammability (solid, gas) | Not a DOT flammable solid per US EPA Method 1030. |
| Upper/lower flammability or explosive limits | |
| Explosive limit - lower (%) | Not applicable. |
| Explosive limit - upper (%) | Not applicable. |
| Vapor pressure | Not applicable. |
| Vapor density | Not applicable. |
| Relative density | Not applicable. |
| Solubility(ies) | |
| Solubility (water) | Insoluble. |
| Solubility (other) | Not applicable. |

| | |
|--|--------------------------------|
| Partition coefficient (n-octanol/water) | Not applicable. |
| Auto-ignition temperature | Not applicable. |
| Decomposition temperature | Not applicable. |
| Viscosity | Not applicable. |
| Other information | |
| Density | 0.25 - 0.33 lb/in ³ |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |
| Specific gravity | 7.74 Not applicable. |

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 | Hazardous polymerization does not occur. |
| Conditions to avoid | Avoid dust formation. Contact with acids. Contact with alkalis. |
| Incompatible materials | Strong acids, alkalies and oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|---|
| Inhalation | May cause sensitization by inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs (respiratory system) through prolonged or repeated exposure. |
| Skin contact | May cause an allergic skin reaction. |
| Eye contact | Not likely, due to the form of the product. |
| Ingestion | Not likely, due to the form of the product. |

Symptoms related to the physical, chemical and toxicological characteristics Respiratory disorder.

Information on toxicological effects

| | |
|--|--|
| Acute toxicity | May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. |
| Skin corrosion/irritation | Not likely, due to the form of the product. |
| Serious eye damage/eye irritation | Harmful in contact with eyes. |
| Respiratory or skin sensitization | |
| ACGIH sensitization | |
| HARD METALS CONTAINING COBALT AND TUNGSTEN CARBIDE, THORACIC FRACTION, AS CO (CAS 7440-48-4) | Respiratory sensitization |
| Respiratory sensitization | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitization | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Due to lack of data the classification is not possible. |
| Carcinogenicity | Cancer hazard. |

IARC Monographs. Overall Evaluation of Carcinogenicity

| | |
|---------------------------|-------------------------------------|
| Beryllium (CAS 7440-41-7) | 1 Carcinogenic to humans. |
| Cobalt (CAS 7440-48-4) | 2B Possibly carcinogenic to humans. |

Nickel (CAS 7440-02-0)

2B Possibly carcinogenic to humans.

Silica (CAS 14808-60-7)

1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Beryllium (CAS 7440-41-7)

Cancer

Silica (CAS 14808-60-7)

Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

Beryllium (CAS 7440-41-7)

Known To Be Human Carcinogen.

Cobalt (CAS 7440-48-4)

Reasonably Anticipated to be a Human Carcinogen.

Nickel (CAS 7440-02-0)

Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Silica (CAS 14808-60-7)

Known To Be Human Carcinogen.

Reproductive toxicity

Not classified.

Specific target organ toxicity - single exposure

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Specific target organ toxicity - repeated exposure

May cause damage to organs (respiratory system) through prolonged or repeated exposure by inhalation.

Aspiration hazard

Due to lack of data the classification is not possible.

Chronic effects

Hazardous by OSHA criteria. May cause damage to organs through prolonged or repeated exposure.

Further information

Symptoms may be delayed.

12. Ecological information

Ecotoxicity

No ecotoxicity data noted for the ingredient(s).

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Not available.

Mobility in soil

Not available.

Other adverse effects

Not available.

13. Disposal considerations

Disposal instructions

Material should be recycled if possible. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Waste from residues / unused products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

Toxic Substances Control Act (TSCA)

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

| | |
|---------------------------|---------|
| Beryllium (CAS 7440-41-7) | Listed. |
| Cobalt (CAS 7440-48-4) | Listed. |
| Copper (CAS 7440-50-8) | Listed. |
| Nickel (CAS 7440-02-0) | Listed. |

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

| | |
|---------------------------|--|
| Beryllium (CAS 7440-41-7) | Cancer |
| Silica (CAS 14808-60-7) | Cancer |
| Beryllium (CAS 7440-41-7) | lung effects (CBD and acute beryllium disease) |
| Silica (CAS 14808-60-7) | lung effects |
| Beryllium (CAS 7440-41-7) | beryllium sensitization |
| Silica (CAS 14808-60-7) | immune system effects |
| | kidney effects |
| Beryllium (CAS 7440-41-7) | respiratory tract irritation |

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

Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Respiratory or skin sensitization
Carcinogenicity
Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| Aluminum | 7429-90-5 | 0.1 - 1 |
| Beryllium | 7440-41-7 | 0.1 - 2 |
| Cobalt | 7440-48-4 | 0.1 - 1 |
| Copper | 7440-50-8 | 65 - 90 |
| Nickel | 7440-02-0 | 0.1 - 1 |

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

Beryllium (CAS 7440-41-7)
Cobalt (CAS 7440-48-4)
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) Contains component(s) regulated under the Safe Drinking Water Act.

US state regulations**California Proposition 65**

WARNING: This product can expose you to chemicals including Beryllium, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

| | |
|---------------------------|-------------------------|
| Beryllium (CAS 7440-41-7) | Listed: October 1, 1987 |
| Cobalt (CAS 7440-48-4) | Listed: July 1, 1992 |
| Nickel (CAS 7440-02-0) | Listed: October 1, 1989 |
| Silica (CAS 14808-60-7) | Listed: October 1, 1988 |

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

Aluminum (CAS 7429-90-5)

Beryllium (CAS 7440-41-7)
Cobalt (CAS 7440-48-4)
Copper (CAS 7440-50-8)
Nickel (CAS 7440-02-0)
Silica (CAS 14808-60-7)

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

Issue date 07-09-2019
Version # 01
Further information Transportation Emergency
Call Chemtrec at:
Domestic: 800.424.9300
International: 703.527.3887

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