SAFETY DATA SHEET



CO-263 products

Section 1. Identification

GHS product identifier	: CO-263 products
Other means of identification	: CO-263 (ZCO263-00), CO-263-3 (032132), CO-263-5 (ZCO263-05), CO-263-6 (ZCO263-06), CO-263-7 (ZCO263-07)
Product type	: Powder.

Relevant identified uses of the substance or mixture and uses advised against Not applicable.

Supplier's details	 Praxair Surface Technologies, Inc. 1555 Main Street Indianapolis, IN 46224 USA 317-240-2650
Emergency telephone	: 317-240-2484 7:00am - 3:30pm ET Mon-Fri
number (with hours of	Chemtrec: 1-800-424-9300

operation)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B CARCINOGENICITY - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Causes eye irritation. Suspected of causing cancer.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear eye or face protection. Wash hands thoroughly after handling.
Response	: IF exposed or concerned: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

: Substance

: (

: CO-263 (ZCO263-00), CO-263-3 (032132), CO-263-5 (ZCO263-05), CO-263-6 (ZCO263-06), CO-263-7 (ZCO263-07)

CAS number/other identifiers

CAS number	: Not available.
Product code	: CO-263 products

Ingredient name	%	CAS number	
CO-263 products	100	-	
cobalt	50 - 75	7440-48-4	
chromium	20 - 50	7440-47-3	
tungsten	5 - 20	7440-33-7	
Nickel	5 - 20	7440-02-0	
boron	<1	7440-42-8	
carbon	<1	7440-44-0	
manganese	<1	7439-96-5	
silicon	<1	7440-21-3	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health	<u>i effects</u>
Eye contact	: Causes eye irritation.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: May be irritating to mouth, throat and stomach.
Over-exposure signs	/symptoms

Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	 No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: metal oxide/oxides
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Small spill	: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Storage	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits
cobalt		OSHA PEL 1989 (United States, 3/1989).
		Notes: as Co
		TWA: 0.05 mg/m ³ , (as Co) 8 hours.
		NIOSH REL (United States, 4/2013). Notes:
		as Co
		TWA: 0.05 mg/m ³ , (as Co) 10 hours. Form:
		Dust and fumes
		OSHA PEL (United States, 2/2013). Notes:
		as Co
		TWA: 0.1 mg/m³, (as Co) 8 hours.
		ACGIH TLV (United States, 6/2013). Notes:
		as Co
		TWA: 0.02 mg/m ³ , (as Co) 8 hours. Form:
		Inorganic
chromium		ACGIH TLV (United States, 6/2013).
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Section 8. Exposure controls/personal protection

	TWA: 0.5 mg/m ³ , (measured as Cr) 8 hours. OSHA PEL 1989 (United States, 3/1989).
	TWA: 1 mg/m ³ 8 hours. NIOSH REL (United States, 4/2013).
	TWA: 0.5 mg/m ³ 8 hours.
	OSHA PEL (United States, 2/2013). TWA: 1 mg/m ³ , (as Cr) 8 hours.
tungsten	ACGIH TLV (United States, 6/2013).
	TWA: 5 mg/m ³ , (as W) 8 hours.
	STEL: 10 mg/m ³ , (as W) 15 minutes.
	NIOSH REL (United States, 4/2013). TWA: 5 mg/m ³ , (as W) 10 hours.
	STEL: 10 mg/m ³ , (as W) 15 minutes.
Nickel	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1 mg/m ³ , (as Ni) 8 hours.
	NIOSH REL (United States, 4/2013). TWA: 0.015 mg/m ³ , (as Ni) 10 hours.
	ACGIH TLV (United States, 6/2013).
	TWA: 1.5 mg/m ³ 8 hours. Form: Inhalable
	fraction OSHA PEL (United States, 2/2013).
	TWA: 1 mg/m ³ , (as Ni) 8 hours.
manganese	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1 mg/m ³ , (as Mn) 8 hours. Form: Fume
	STEL: 3 mg/m³, (as Mn) 15 minutes. Form: Fume
	NIOSH REL (United States, 4/2013).
	TWA: 1 mg/m³, (as Mn) 10 hours. Form:
	Fume STEL: 3 mg/m³, (as Mn) 15 minutes. Form:
	Fume
	OSHA PEL (United States, 2/2013).
	CEIL: 5 mg/m ³ , (as Mn) Form: Fume ACGIH TLV (United States, 6/2013).
	TWA: 0.1 mg/m ³ , (as Mn) 8 hours. Form:
	Inhalable fraction
	TWA: 0.2 mg/m ³ , (as Mn) 8 hours. Form:
	Respirable fraction
silicon	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 10 mg/m ³ 8 hours. Form: Total dust
	NIOSH REL (United States, 4/2013). TWA: 5 mg/m ³ 10 hours. Form: Respirable
	fraction
	TWA: 10 mg/m ³ 10 hours. Form: Total
	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
	TWA: 15 mg/m ³ 8 hours. Form: Total dust

Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 8. Exposure controls/personal protection

Individual protection measures	
Hygiene measures :	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection :	Safety eyewear complying with an approved standard should be used to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles.
Skin protection	
Hand protection :	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection :	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection :	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection :	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance		
Physical state	Solid. [Powder.]	
Color	Gray.	
Odor	Odorless.	
Odor threshold	Not available.	
рН	Not available.	
Melting point	Not available.	
Boiling point	Not available.	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Lower and upper explosive (flammable) limits	Not available.	
VOC content	0 lbs/gal (0 g/l)	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility	Insoluble in the following materials: cold water and hot water.	
Partition coefficient: n- octanol/water	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
boron	LD50 Oral	Rat	650 mg/kg	-
manganese	LD50 Oral	Rat	9 g/kg	-
silicon	LD50 Oral	Rat	3160 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
tungsten	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
manganese	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
silicon	Eyes - Mild irritant	Rabbit	-	3 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
cobalt chromium	-	2B 3	
Nickel	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Routes of entry anticipated: Dermal, Inhalation.
Potential acute health effects	2	
Eye contact	1	Causes eye irritation.
Inhalation	:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	1	May be irritating to mouth, throat and stomach.
		cal, chemical and toxicological characteristics
Eye contact		Adverse symptoms may include the following: irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	1	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effect	ts	and also chronic effects from short and long term exposure
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
General	:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Numerical measures of toxic	<u>ity</u>	

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure	
cobalt	Acute LC50 4400 µg/l	Daphnia - Daphnia magna	48 hours	
	Acute LC50 3.4 mg/l Fresh water	Fish - Pimephales promelas	96 hours	
chromium	Acute EC50 0.2 ppm Marine water	Algae - Bacillariophyta	72 hours	
	Acute EC50 5 ppm Marine water	Algae - Macrocystis pyrifera - Young	4 days	
	Acute EC50 35000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days	
	Acute LC50 45 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata	48 hours	
	Acute LC50 22 µg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 13.9 ppm Fresh water	Fish - Anguilla rostrata	96 hours	
	Chronic NOEC 50 mg/l Marine water	Algae - Glenodinium halli	72 hours	
	Chronic NOEC 0.19 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks	
Nickel	Acute EC50 2 ppm Marine water	Algae - Macrocystis pyrifera - Young	4 days	
	Acute EC50 450 µg/l Fresh water	Aquatic plants - Lemna minor	4 days	
	Acute EC50 1000 µg/l Marine water	Daphnia - Daphnia magna	48 hours	
	Acute IC50 0.31 mg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling,	48 hours	
		Hatchling, Weanling)		
	Acute LC50 47.5 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours	
	Chronic NOEC 100 mg/l Marine water	Algae - Glenodinium halli	72 hours	
	Chronic NOEC 3.5 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks	
boron	Acute EC50 60000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days	
manganese	Acute EC50 31000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days	
	Acute LC50 29000 μg/l	Daphnia - Daphnia magna	48 hours	
	Acute LC50 28 mg/l Fresh water	Fish - Pimephales promelas	96 hours	

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
cobalt	-	15600	high
silicon	57 to 77	-	high

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ	
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
UN proper shipping name	-	-	-	-	-	-	
Transport hazard class(es)	-	-	-	-	-	-	
Packing group	-	-	-	-	-	-	
Environmental hazards	No.	No.	No.	No.	No.	No.	
Additional information	Reportable quantity 800 lbs / 363.2 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.			-	-	-	

Special precautions for user	1	Transport within user's premises: always transport in closed containers that are
		upright and secure. Ensure that persons transporting the product know what to do in the
		event of an accident or spillage.

Transport in bulk according	1	Not available.
to Annex II of MARPOL		
73/78 and the IBC Code		

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) PAIR: tungsten
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
	Clean Water Act (CWA) 307: chromium; Nickel
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed

Section 15. Regulatory information

DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification

: Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
CO-263 products	100	No.	No.	No.	Yes.	Yes.
cobalt	50 - 75	No.	No.	No.	No.	Yes.
tungsten	5 - 20	No.	No.	No.	Yes.	No.
Nickel	5 - 20	No.	No.	No.	No.	Yes.
boron	<1	No.	No.	No.	Yes.	No.
silicon	<1	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	cobalt	7440-48-4	50 - 75
	chromium	7440-47-3	20 - 50
	Nickel	7440-02-0	5 - 20
Supplier notification	cobalt	7440-48-4	50 - 75
	chromium	7440-47-3	20 - 50
	Nickel	7440-02-0	5 - 20

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: COBALT; CHROMIUM; NICKEL; TUNGSTEN
New York	: The following components are listed: Chromium; Nickel
New Jersey	: The following components are listed: COBALT; CHROMIUM; NICKEL; TUNGSTEN
Pennsylvania	 The following components are listed: COBALT FUME; CHROMIUM; NICKEL; TUNGSTEN

California Prop. 65

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

Ingredient name	Cancer	· · · · ·	•	Maximum acceptable dosage level
cobalt Nickel				No. No.

Canada inventory

: All components are listed or exempted.

International regulations

Section 15. Regulatory information

International lists	 Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory: Not determined. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted. Taiwan inventory (CSNN): Not determined.
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

Section 16. Other information

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<u>mistory</u>	
Date of printing	: 1/16/2014.
Date of issue/Date of revision	: 1/16/2014.

Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.