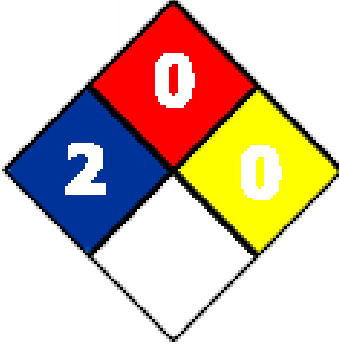




NFPA	HMIS		PPE	Transport Symbol
	Health hazard	2	 	
	flammability	0		
	stability	0		

Issuing Date 01-Jun-2012

Revision date 22-Jul-2013

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	STELLITE® 12 - ROD
Type	Rod/ Solid
Product code	KSRC012 01 - ROD
Product Type	Stellite - Welding rods.
Recommended Use	Wear and Corrosion Resistant Welding Consumable.
Uses advised against	None reasonably foreseeable
Prepared by	Deloro Stellite 1201 Eisenhower Drive North Goshen, IN 46526
<u>Company Emergency Phone Number</u>	CHEMTREC: +1-703-527-3887 (INTERNATIONAL) 1-800-424-9300 (NORTH AMERICA)
E-mail	k-corp-product.safety@kennametal.com
Issuing Date	01-Jun-2012

2. Hazards Identification

WARNING Emergency Overview

- Poisonous and Deleterious Substances

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- May be harmful if swallowed, inhaled, or absorbed through skin
 - May produce an allergic reaction
 - May cause skin irritation and/or dermatitis
 - Contains a known or suspected carcinogen
 - May cause sensitization by skin contact
- May cause adverse effects on the bone marrow and blood-forming system
 - Contains a known or suspected reproductive toxin

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- May cause sensitization by skin contact
- Vapors may be irritating to eyes, nose, throat, and lungs
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Appearance Metal (other than steel or aluminum)

physical state solid

Odor none

GHS Precautionary Statements precautionary statements

- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician
- P304 + P341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing
- P280 - Wear eye protection/face protection
- P281 - Use personal protective equipment as required
- P260 - Do not breathe gas

precautionary statements

P312 - Call a POISON CENTRE/doctor/physician if you feel unwell
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P285 - In case of inadequate ventilation wear respiratory protection
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective face protection
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P321 - Specific treatment (see supplemental first aid instructions on this label)
P363 - Wash contaminated clothing before reuse
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P405 - Store locked up
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment
P273 - Avoid release to the environment
P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P314 - Get medical advice/attention if you feel unwell
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

OSHA Regulatory Status

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WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

Welding Hazards

CAUTION

Welding will create fumes which may be toxic

If welding is performed on plated or coated materials such as galvanised or painted steel, excessive fume may be produced which contains additional hazardous components, and may result in metal fume fever or other health effects
Radiation from the welding process can cause burns to the skin and damage to the eyes

The product and work surface will be hot during and after welding

Electric shock can KILL

Fire Hazard

Arc Rays can injur eyes and burn skin

Incorrect or unsafe use of the welding consumables may result in injury to health and property

Ensure adequate ventilation to remove fumes

Helmets or hand shields shall be used during all arc welding or arc cutting operations

Incorrect or unsafe use of the welding consumables may result in injury to health and property

Product Information

Potential health effects

acute toxicity

Inhalation

May be harmful if inhaled. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. May cause allergy or asthma symptoms or breathing difficulties if inhaled. MAY CAUSE ALLERGIC RESPIRATORY REACTION.

Eye Contact

Expected to be an irritant based on components. Contact with eyes may cause irritation.

INGESTION

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may cause irritation to mucous membranes.

irritation

Repeated exposure may cause skin dryness or cracking.

Sensitization

May cause sensitization of susceptible persons.

**Chronic effects
 chronic toxicity**

Prolonged exposure may cause chronic effects. . CNS and psychiatric effects, Parkinson-like symptoms. Languor, sleepiness and weakness in legs. A stolid masklike appearance of face, emotional disturbances such as uncontrollable laughter and spastic gait with tendency to fall in walking and findings in more advanced cases. Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Repeated or prolonged exposure may cause central nervous system damage. Contains a known or suspected reproductive toxin. This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)

Main Symptoms

May cause allergy or asthma symptoms or breathing difficulties if inhaled. MAY CAUSE ALLERGIC SKIN REACTION. Neurological disorders.

Aggravated Medical Conditions

Skin disorders. Neurological disorders. Respiratory disorders. Preexisting eye disorders. Allergies. Blood disorders. Overexposure may cause female and male reproductive disorder(s).

Interactions with Other Chemicals

Irritants. Sensitizers. Epoxies.

environmental hazard

See Section 12 for additional Ecological Information. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %
Cobalt	7440-48-4	25 - 50
Chromium	7440-47-3	25 - 50
Tungsten	7440-33-7	10 - 25
Carbon	7440-44-0	3 - 5
Nickel	7440-02-0	3 - 5
Iron	7439-89-6	3 - 5
Silicon Metal	7440-21-3	1 - 2.5

4. First aid measures

General advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Eye Contact	Keep eye wide open while rinsing. If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash off immediately with soap and plenty of water.
Inhalation	Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Oxygen or artificial respiration if needed. Get medical attention.
INGESTION	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth.
Notes to Physician	Treat symptomatically. May cause sensitization by inhalation and skin contact. May cause sensitization of susceptible persons. Use of epinephrine may be indicated.
Self-protection of the first aider	Self-protection of the first aider. Wear suitable gloves.

5. Fire-fighting measures

Flammable properties	Not flammable.			
flash point	not applicable			
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Hazardous combustion products	Carbon oxides.			
Explosion data				
	Sensitivity to Mechanical Impact	Not sensitive.		
	Sensitivity to Static Discharge	Not sensitive.		
Specific hazards arising from the chemical	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.			
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
NFPA	Health hazard 2	flammability 0	stability 0	Physical and Chemical Hazards - Personal precautions -
HMIS	Health hazard 2	flammability 0	stability 0	

6. Accidental release measures

Personal precautions	Avoid dust formation. Avoid contact with the skin and the eyes. Ensure adequate ventilation. Use personal protective equipment. Refer to Section 8. Avoid contact with skin, eyes and clothing.
Methods for containment	Prevent further leakage or spillage if safe to do so. Avoid dust formation.
Methods for cleaning up	Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically and collect in suitable container for disposal. Avoid dust formation. Clean contaminated surface thoroughly. Soak up with inert absorbent material.
OTHER INFORMATION	See Section 12 for additional Ecological Information

7. Handling and Storage

Handling	Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.
Storage	Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place.
Compliance to ANSI Z49.1 (2012) - Safety in Welding shall be observed.	
ventilation	
Specific use(s) 29 CFR 1910	Welding

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Cobalt 7440-48-4	0.02 mg/m ³ TWA	0.1 mg/m ³ TWA (dust and fume)	20 mg/m ³ IDLH (dust and fume)
Chromium 7440-47-3	0.5 mg/m ³ TWA	1 mg/m ³ TWA	250 mg/m ³ IDLH
Tungsten 7440-33-7	5 mg/m ³ TWA		
Nickel 7440-02-0	1.5 mg/m ³ TWA	1 mg/m ³ TWA	10 mg/m ³ IDLH
Silicon Metal 7440-21-3	Not Listed	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	Not Listed

NIOSH IDLH: Immediately Dangerous to Life or Health

ventilation

Other Exposure Guidelines Hexavalent Chrome may be formed during welding.

Personal protective equipment

Eye/face Protection

Tightly fitting safety goggles. Use suitable eye protection to guard against the effects of welding. .

Skin and Body Protection	Long sleeved clothing. Wear fire/flare resistant/retardant clothing. Protective gloves. The product and work surface will be hot during and after welding. Ensure adequate protection is in place to stop individuals from burning themselves. .
Respiratory protection	Use only with adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice Do not eat, drink or smoke when using this product Remove and wash contaminated clothing before re-use
OTHER INFORMATION	Health Surveillance should be in place for employees who are exposed while using this product Fume and dust exposure should be controlled to below the recognised exposure limits for each of the individual constituents and to total, inhalable and respirable dust limits Special Training Needs Eye wash bottle with pure water

9. Physical and Chemical Properties

Appearance	Metal (other than steel or aluminum)	Odor	none
physical state	solid	pH	Insoluble in water.
flash point	not applicable	Autoignition temperature	N/A
Melting point / melting range	°C / °F		
Explosion Limits	not applicable		
Water solubility	Insoluble in water	vapor pressure	not applicable
vapor density	not applicable	density	8.44 g/cm3
Explosive properties	Not explosive	VOC Content (%)	Not Applicable
viscosity	solid		

10. Stability and Reactivity

stability	Stable under normal conditions.
Incompatible Products	None known based on information supplied.
Conditions to avoid	none
Hazardous decomposition products	Metal oxides
Hazardous Reactions	None under normal processing
Hazardous polymerization	Hazardous polymerization does not occur.

11. Toxicological Information

Product Information

acute toxicity

Inhalation	May be harmful if inhaled. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. May cause allergy or asthma symptoms or breathing difficulties if inhaled. MAY CAUSE ALLERGIC RESPIRATORY REACTION.
Eye Contact	Expected to be an irritant based on components. Contact with eyes may cause irritation.
INGESTION	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may cause irritation to mucous membranes.
irritation	Repeated exposure may cause skin dryness or cracking
Sensitization	May cause sensitization of susceptible persons

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Cobalt	9350 mg/kg bw	>2000 mg/kg bw	data waiving
Chromium	LD50 >5000 mg/kg bw	Data waiving - Study Scientifically Unjustified	LC50 >5.41 mg/L air (analytical)
Tungsten	LD50 >2000 mg/kg bw	LD50 >2000 mg/kg bw	LC50 >5.4 mg/L air
Carbon	> 10000 mg/kg (Rat)		
Nickel	>9000 mg/kg bw	Data waiving - Other Justification	NOAEC >=10.2 mg/L air
Iron	= 984 mg/kg (Rat)		
Silicon Metal	LD50 >3160 mg/kg bw	LD50 >5000 mg/kg bw	Acutely Non Toxic

chronic toxicity

chronic toxicity Prolonged exposure may cause chronic effects. . CNS and psychiatric effects, Parkinson-like symptoms. Languor, sleepiness and weakness in legs. A stolid masklike appearance of face, emotional disturbances such as uncontrollable laughter and spastic gait with tendency to fall in walking and findings in more advanced cases. Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Repeated or prolonged exposure may cause central nervous system damage. Contains a known or suspected reproductive toxin. This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

carcinogenicity . This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical name	ACGIH	IARC	NTP	OSHA
Cobalt	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	Group 2B - Possible Human Carcinogen	Not Listed	Not Listed
Chromium	A4 - Not Classifiable as a Human Carcinogen	Group 3 - Not Classified as a Human Carcinogen	Not Listed	Not Listed
Nickel	A5 - Not Suspected as a Human Carcinogen	Nickel Compounds: Group 1 - Known Human Carcinogen - Nickel, Metallic & Alloy: Group 2B - Possible Human Carcinogen	Reasonably anticipated to be a Human Carcinogen	Not Listed

ACGIH: (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans, Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

Sensitization May cause sensitization of susceptible persons.

MUTAGENIC EFFECTS None known.

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.

developmental toxicity None known.

Target organ effects blood, Central Vascular System (CVS), EYES, Lungs, Nasal Cavities, respiratory system, skin.

Substance related information

Chromium (III) Compounds

ACUTE HEALTH EFFECTS: Respiratory irritant, causes sensitization

CHRONIC HEALTH EFFECTS:

INHALATION: Prolonged or repeated inhalation may cause writhing, loss of muscular coordination, laboured respiration, sedation, hypotension and cardiovascular collapse.

INGESTION: May affect the coagulation rate of the blood

SKIN: May cause dermatitis, sensitivity to heat, itching and skin lesions

TOXICITY: The toxicity of cerium and other lanthanides varies considerably with salts from and by species. Most lanthanides have minimal toxicity under 10mg/Kg. Between 10 and 20mg/Kg anticoagulant activity may occur. Serious cardiovascular and respiratory toxicity has occurred in animals in amounts greater than 20mg/Kg of the chloride salts

Chromium Vi compounds

Nickel Metal

ACUTE HEALTH EFFECTS: Contact allergy/ skin sensitization

CHRONIC HEALTH EFFECTS: Mucosal damage and inflammatory reaction, sometimes accompanied by slight fibrosis, was observed in rabbits after high level exposure to nickel graphite dust

TOXICOLOGY: Chronic noncancer effects from exposure to nickel include asthma and other respiratory effects

Silicon Metal

ACUTE HEALTH EFFECTS: Injury to skin and mucous membrane

CHRONIC HEALTH EFFECTS: None Known

TOXICOLOGY: Not toxic through normal exposure

12. Ecological Information

This product contains a chemical which is listed as a marine pollutant according to DOT.

ecotoxicity

ecotoxicity

VERY TOXIC TO AQUATIC ORGANISMS This product contains an ingredient that is classified, according to European regulations, as "harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment" MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

Chemical name	Algae toxicity	Acute Fish toxicity	Toxicity to Microorganisms	Daphnia magna
Cobalt	EC50 - 270ug/L	NOEC - 100 mg/L - Cobalt Powder	Not available	LOEC - 5.6 mg/L, LC50 > 100 mg/L
Chromium	Data Waiving - Study Scientifically Unjustified	Data Waiving - Study Scientifically Unjustified	Not available	Data Waiving - Study Scientifically Unjustified
Tungsten	Read Across - EC50 - 7.35 mg/L	Read Across - NOEC - 200 mg/L	Not available	EC50 >163mg/L
Nickel	EC10 - 316.5 ug/L	LC50 - 15.3 mg/L	Not available	LC50 >200ug/L (@6-6.5 pH), 13ug/L (@8-8.5pH)
Iron	NOEC - 1.4 mg/L	Data Waiving - Study Scientifically Unjustified	Not available	Data Waiving - Study Scientifically Unjustified
Silicon Metal	Data Waiving - Study Scientifically Unjustified	Data Waiving - Other Justification	Not available	Data Waiving - Study Scientifically Unjustified

13. Disposal Considerations

Waste treatment methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Cobalt	Toxic Ignitable
Chromium	Toxic Corrosive Ignitable
Nickel	Toxic Ignitable

14. Transport Information

DOT
Marine pollutant Not regulated
 This product contains a chemical which is listed as a marine pollutant according to DOT.

TDG Not regulated

MEX Not regulated

ICAO
UN-No Not regulated
 UN3307

IATA
UN-No Not regulated
 UN3307

IMDG/IMO
UN-No Not regulated
 UN3077
Hazard Class 9
Packing group III

UN-No UN3077
Proper shipping name 3077 - Environmentally hazardous substance, solid, n.o.s
Hazard Class 9

ADR
UN-No UN3077
Hazard Class 9
Packing group III
Classification code M7

Special precautions none

15. regulatory information

International Inventories

TSCA Complies
DSL Does not Comply
EINECS/ELINCS Complies

U.S. Federal Regulations

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Cobalt	7440-48-4	25 - 50	Present
Chromium	7440-47-3	25 - 50	Present

SARA 311/312 Hazard Categories

Acute health hazard yes
Chronic Health Hazard yes
Fire Hazard no

Sudden release of pressure hazard no
Reactive Hazard no

Clean Water Act This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chromium 7440-47-3 (25 - 50)	Not Applicable	Present	Present	Not Applicable
Nickel 7440-02-0 (3 - 5)	Not Applicable	Present	Present	Not Applicable

Clean Air Act, Section 112 This product does not contain any substances regulated as hazardous air pollutants
Hazardous Air Pollutants (HAPs) (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.
 (see 40 CFR 61)

CERCLA This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Chromium	5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)	
Nickel	100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)	

U.S. State Regulations

California Prop. 65	
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U.S. State Right-to-Know Regulations

Chemical name	Massachusetts	New Jersey	Pennsylvania
Cobalt	Present	sn 0520	Environmental hazard (fume) Present
Chromium	Carcinogen; Extraordinarily hazardous	sn 0432	Environmental hazard; Special hazardous substance Present
Tungsten	Present	sn 1959	Present
Nickel	Carcinogen; Extraordinarily hazardous	sn 1341 (dust and fume)	Environmental hazard; Special hazardous substance Present

Silicon Metal	Present (dust, exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product)	sn 3125 (powder)	Present
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International Regulations

Mexico - Grade

CANADA

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D1A Very toxic materials



DSL/NDSL

Component	NPRI
Cobalt 7440-48-4 (25 - 50)	Part 1, Group 1 Substance (total of the pure element and the equivalent weight of the element contained in any compound, alloy or mixture)
Chromium 7440-47-3 (25 - 50)	Part 1, Group 1 Substance (total of pure Chromium and the equivalent weight of Chromium contained in any compound, alloy, or mixture, except Hexavalent chromium and its compounds)
Nickel 7440-02-0 (3 - 5)	Part 1, Group 1 Substance (total of the pure element and the equivalent weight of the element contained in any compound, alloy or mixture)

Legend

NPRI - National Pollutant Release Inventory

16. other information

Prepared by

Kennametal Inc. 1600 Technology Way Latrobe, PA 15650, USA

Issuing Date

01-Jun-2012

Revision date

22-Jul-2013

Revision Note

No information available

Disclaimer

Kennametal urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDS's obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version

End of Safety Data Sheet