

Section 1: Identification

Product identifier

Product Name

• **Pure Nickel**

Synonyms

• Thread Compound, Sealant, Anti-Seize, Lubricant

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

• Anti-Seize, Lubricant, Sealant, thread compound for stainless steel connections

Details of the supplier of the safety data sheet

Manufacturer

• Topco Oilsite Products Ltd.
Bay 7, 3401 - 19th Street N.E.
Calgary, Alberta T2E 6S8
Canada
www.topcoilsite.com
msds@topcoilsite.com

Telephone (General) • 403-219-0255

Emergency telephone number

Manufacturer

• 403-219-0255

Poison & Drug Information Service (Alberta Health Services)

• 1-800-332-1414

Section 2: Hazard Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

Classification of the substance or mixture

CLP

• Skin Sensitization 1 - H317
Specific Target Organ Toxicity Repeated Exposure 1 - H372

Label Elements

CLP

DANGER



Hazard statements • H317 - May cause an allergic skin reaction
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention • P260 - Do not breathe dust.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing should not be allowed out of the workplace.

- Response** • P302+P352 - IF ON SKIN: Wash with plenty of water.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P321 - Specific treatment, see supplemental first aid information.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.

Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other Hazards

CLP • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

UN GHS Revision 4

According to: **UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Fourth Revised Edition**

Classification of the substance or mixture

UN GHS • Skin Mild Irritation 3
Skin Sensitization 1A
Respiratory Sensitization 1B
Specific Target Organ Toxicity Repeated Exposure 2
Hazardous to the aquatic environment Acute 3

Label elements

UN GHS

DANGER



Hazard statements • Causes mild skin irritation
May cause an allergic skin reaction
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life

Precautionary statements

- Prevention** • Do not breathe dust.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves.
In case of inadequate ventilation wear respiratory protection.
- Response** • IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
IF ON SKIN: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
Specific treatment, see supplemental first aid information.
If skin irritation or rash occurs: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

UN GHS • According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

- OSHA HCS 2012
- Skin Sensitization 1A
 - Respiratory Sensitization 1A
 - Specific Target Organ Toxicity Repeated Exposure 2

Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- May cause an allergic skin reaction
 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention**
- Do not breathe dust.
 - Contaminated work clothing should not be allowed out of the workplace.
 - Wear protective gloves.
 - In case of inadequate ventilation wear respiratory protection.
- Response**
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.
 - If on skin: Wash with plenty of water.
 - Wash contaminated clothing before reuse.
 - Specific treatment, see supplemental first aid information.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - Get medical advice/attention if you feel unwell.

- Storage/Disposal**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

- OSHA HCS 2012
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS 2015

Classification of the substance or mixture

- WHMIS 2015
- Skin Sensitization 1A
 - Respiratory Sensitization 1B
 - Specific Target Organ Toxicity Repeated Exposure 2

Label elements

WHMIS 2015

DANGER



- Hazard statements** • May cause an allergic skin reaction
 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** • Do not breathe dust.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves.
 In case of inadequate ventilation wear respiratory protection.
- Response** • IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 IF ON SKIN: Wash with plenty of water.
 Take off contaminated clothing and wash it before reuse.
 Specific treatment, see supplemental first aid information.
 If skin irritation or rash occurs: Get medical advice/attention.
 Get medical advice/attention if you feel unwell.

- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

WHMIS 2015

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	CAS:64741-88-4 EC Number:265-090-8 EU Index:649-454-00-7	42% TO 54%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Skin-Rabbit LD50 • >2000 mg/kg	EU CLP: Annex VI, Table 3.1: Carc. 1B, H350 UN GHS Revision 4: Skin Irrit. 3; Asp. Tox. 2 OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	Contains <3% DMSO
Graphite	CAS:7782-42-5 EC Number:231-955-3	20% TO 30%	NDA	EU CLP: STOT RE 1 (Lungs / Inhl), H372 UN GHS Revision 4: STOT RE 1 (Lungs / Inhl) OSHA HCS 2012: Comb. Dust; STOT RE 1 (Lungs / Inhl) WHMIS 2015:	NDA
Nickel, massive, ≥ 1 mm	CAS:7440-02-0 EC Number:231-111-4	9.95% TO 19.98%	NDA	EU CLP: Annex VI, Table 3.1: Skin Sens. 1, H317; Carc. 2, H351 (Inhl); STOT RE 1, H372 (Lungs / Oral/Dermal/Inhalation); Aquatic Chronic 3, H412 UN GHS Revision 4: Flam. Sol. 1; Comb. Dust; Resp. Sens. 1B; Skin Sens. 1A; Carc. 2 (Inhl); STOT RE 2 (Lungs / OrI, Inhl); Aquatic Acute 3; Aquatic Chronic 3 OSHA HCS 2012: Flam. Sol. 1; Comb. Dust; Resp. Sens. 1B; Skin Sens. 1A; Carc. 2 (Inhl); STOT RE 2 (Lungs / OrI, Inhl) WHMIS 2015: Flam. Sol. 1; Comb. Dust;	NDA

				Resp. Sens. 1B; Skin Sens. 1A; Carc. 2 (Inhl); STOT RE 2 (Lungs / OrL, Inhl)	
Calcium mon carbonate	CAS: 471-34-1 EC Number: 207-439-9	3% TO 6%	Ingestion/Oral-Rat LD50 • 6450 mg/kg	EU CLP: Skin Irrit. 2, H315; Eye Irrit. 2, H319 UN GHS Revision 4: Skin Irrit. 2; Eye Irrit. 2 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2 WHMIS 2015: Skin Irrit. 2; Eye Irrit. 2	NDA
Sulfonic acid, petroleum, calcium salt	CAS: 61789-86-4 EINECS: 263-093-9	0.6% TO 3%	NDA	EU CLP: Not Classified UN GHS Revision 4: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA
Benzenesulfonic acid, dodecyl-, calcium salt	CAS: 26264-06-2 EINECS: 247-557-8	0.6% TO 3%	Ingestion/Oral-Rat LD50 • 1300 mg/kg	EU CLP: Acute Tox. 4, H302 UN GHS Revision 4: Acute Tox. 4 (orl); Aquatic Acute 2 OSHA HCS 2012: Acute Tox. 4 (orl) WHMIS 2015: Acute Tox. 4 (orl)	NDA
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	CAS: 68584-23-6 EINECS: 271-529-4	0.6% TO 3%	NDA	EU CLP: Not Classified UN GHS Revision 4: Not Classified OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA
Cobalt (powder)	CAS: 7440-48-4 EC Number: 231-158-0 EU Index: 027-001-00-9	0.01% TO 0.05%	Ingestion/Oral-Rat LD50 • 6171 mg/kg	EU CLP: Union workplace exposure limit OSHA HCS 2012: Exposure limit	NDA

See Section 16 for full text of H-statements.

Section 4: First-Aid Measures

Description of first aid measures

- Inhalation** • Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.
- Skin** • Wash skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Eye** • In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion** • Rinse mouth. Give plenty of water to drink. Obtain medical attention immediately if ingested.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

- Notes to Physician** • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media** • In case of fire use media as appropriate for surrounding fire.
- Unsuitable Extinguishing Media** • No data available

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards** • No data available
- Hazardous Combustion Products** • No data available

Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions • Ventilate the area. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures • Keep unauthorized personnel away. Stay upwind.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures • Stop leak if you can do it without risk. Carefully shovel or sweep up spilled material and place in suitable container.

Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

Precautions for safe handling

Handling • Use only with adequate ventilation. Keep away from heat and ignition sources. Use good safety and industrial hygiene practices. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage • Keep only in the original container. Keep container tightly closed. Store in a cool, dry, well-ventilated place.

Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Argentina	Australia	Canada Alberta	Canada British Columbia
Cobalt (powder) (7440-48-4)	TWAs	0.02 mg/m ³ TWA	0.02 mg/m ³ TWA [CMP]	0.05 mg/m ³ TWA (dust and fume)	0.02 mg/m ³ TWA	0.02 mg/m ³ TWA
Calcium monocarbonate (471-34-1)	TWAs	Not established	Not established	10 mg/m ³ TWA (containing no asbestos and <1% crystalline silica, inhalable dust)	10 mg/m ³ TWA	Not established
Nickel, massive, ≥ 1 mm (7440-02-0)	TWAs	1.5 mg/m ³ TWA (inhalable particulate matter)	1.5 mg/m ³ TWA [CMP] (inhalable fraction)	1 mg/m ³ TWA	1.5 mg/m ³ TWA	0.05 mg/m ³ TWA
Graphite	TWAs	2 mg/m ³ TWA (all forms except graphite fibers, respirable particulate matter)	2 mg/m ³ TWA [CMP] (all forms except fibers, respirable fraction)	3 mg/m ³ TWA (containing no asbestos and <1% crystalline silica; all forms except fibres; natural and synthetic, respirable dust)	2 mg/m ³ TWA (all forms except Graphite fibres, respirable)	2 mg/m ³ TWA (all forms except Graphite fibres, respirable)

Exposure Limits/Guidelines (Con't.)

	Result	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut
Cobalt (powder) (7440-48-4)	TWAs	0.02 mg/m3 TWA	0.02 mg/m3 TWA	0.02 mg/m3 TWA	0.02 mg/m3 TWA	0.02 mg/m3 TWA
	STELs	Not established	Not established	0.06 mg/m3 STEL	Not established	0.06 mg/m3 STEL
Calcium monocarbonate (471-34-1)	STELs	Not established	Not established	20 mg/m3 STEL (listed under Limestone)	Not established	20 mg/m3 STEL (listed under Limestone)
	TWAs	Not established	Not established	10 mg/m3 TWA (listed under Limestone)	Not established	10 mg/m3 TWA (listed under Limestone)
Nickel, massive, ≥ 1 mm (7440-02-0)	TWAs	1.5 mg/m3 TWA (inhalable particulate matter)	1 mg/m3 TWA	1.5 mg/m3 TWA (inhalable fraction)	1.5 mg/m3 TWA (inhalable particulate matter)	1.5 mg/m3 TWA (inhalable fraction)
	STELs	Not established	Not established	3 mg/m3 STEL (inhalable fraction)	Not established	3 mg/m3 STEL (inhalable fraction)
Graphite	TWAs	2 mg/m3 TWA (all forms except Graphite fibres, respirable particulate matter)	2 mg/m3 TWA (all forms except graphite fibres)	2 mg/m3 TWA (natural, all forms, except Graphite fibres, respirable fraction)	2 mg/m3 TWA (all forms except Graphite fibres, respirable particulate matter)	2 mg/m3 TWA (natural, all forms, except Graphite fibres, respirable fraction)
	STELs	Not established	Not established	4 mg/m3 STEL (natural, all forms, except Graphite fibres, respirable fraction)	Not established	4 mg/m3 STEL (natural, all forms, except Graphite fibres, respirable fraction)
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	China
Cobalt (powder) (7440-48-4)	STELs	Not established	Not established	0.06 mg/m3 STEL	0.15 mg/m3 STEL (dust and fume)	0.1 mg/m3 STEL
	TWAs	0.02 mg/m3 TWA	0.02 mg/m3 TWAEV	0.02 mg/m3 TWA	0.05 mg/m3 TWA (dust and fume)	0.05 mg/m3 TWA
Calcium monocarbonate (471-34-1)	TWAs	Not established	10 mg/m3 TWAEV (total dust)	10 mg/m3 TWA (listed under Limestone)	30 mppcf TWA; 10 mg/m3 TWA	Not established
	STELs	Not established	Not established	20 mg/m3 STEL (listed under Limestone)	20 mg/m3 STEL	Not established
Nickel, massive, ≥ 1 mm (7440-02-0)	STELs	Not established	Not established	3 mg/m3 STEL (inhalable fraction)	3 mg/m3 STEL	2.5 mg/m3 STEL
	TWAs	1 mg/m3 TWA (inhalable)	1 mg/m3 TWAEV	1.5 mg/m3 TWA (inhalable fraction)	1 mg/m3 TWA	1 mg/m3 TWA
Graphite	STELs	Not established	Not established	4 mg/m3 STEL (natural, except Graphite fibres, respirable fraction)	Not established	8 mg/m3 STEL (total dust); 4 mg/m3 STEL (respirable dust)
	TWAs	2 mg/m3 TWA (except Graphite fibres, respirable)	2 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, except Graphite fibres, respirable dust)	2 mg/m3 TWA (natural, except Graphite fibres, respirable fraction)	20 mppcf TWA; 30 mppcf TWA (synthetic); 10 mg/m3 TWA (synthetic)	4 mg/m3 TWA (total dust); 2 mg/m3 TWA (respirable dust)
Exposure Limits/Guidelines (Con't.)						
	Result	China Highly Toxic Goods	France	Germany DFG	Germany TRGS	Indonesia
Cobalt (powder) (7440-48-4)	TWAs	Not established	Not established	Not established	Not established	0.002 mg/m3 TWA
Sulfonic acid, petroleum, calcium salt (61789-86-4)	TWAs	Not established	Not established	Not established	5 mg/m3 TWA AGW (respirable fraction, exposure factor 4)	Not established
	Ceilings	Not established	Not established	20 mg/m3 Peak (respirable fraction)	Not established	Not established

	MAKs	Not established	Not established	5 mg/m ³ TWA MAK (respirable fraction)	Not established	Not established
Calcium monocarbonate (471-34-1)	TWAs	Not established	10 mg/m ³ TWA [VME]	Not established	Not established	Not established
Nickel, massive, ≥ 1 mm (7440-02-0)	TWAs	1 mg/m ³ TWA	1 mg/m ³ TWA [VME]; 1 mg/m ³ TWA [VME] (metal gratings)	Not established	0.006 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed; the limit values at the workplace is related to the elemental content of the metal, respirable fraction, exposure factor 8)	1.5 mg/m ³ TWA
	STELs	2.5 mg/m ³ STEL	Not established	Not established	Not established	Not established
Graphite (7782-42-5)	TWAs	Not established	2 mg/m ³ TWA [VME] (alveolar fraction)	Not established	Not established	2 mg/m ³ TWA
	MAKs	Not established	Not established	1.5 mg/m ³ TWA MAK (respirable fraction); 4 mg/m ³ TWA MAK (inhalable fraction)	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Israel	Japan	Malaysia	Mexico	Netherlands
Cobalt (powder) (7440-48-4)	TWAs	0.02 mg/m ³ TWA	0.05 mg/m ³ OEL	0.02 mg/m ³ TWA	0.1 mg/m ³ TWA VLE-PPT (dust and fume, as Co)	0.02 mg/m ³ TWA (dust and smoke, as Co)
Nickel, massive, ≥ 1 mm (7440-02-0)	TWAs	1.5 mg/m ³ TWA (inhalable fraction)	1 mg/m ³ OEL	1.5 mg/m ³ TWA (inhalable fraction)	1 mg/m ³ TWA VLE-PPT	Not established
Graphite (7782-42-5)	TWAs	2 mg/m ³ TWA (respirable fraction, all forms except graphite fibers)	2 mg/m ³ OEL (Class 1 Dust, total dust); 0.5 mg/m ³ OEL (Class 1 Dust, respirable dust)	2 mg/m ³ TWA (all forms except Graphite fibres, respirable fraction)	2 mg/m ³ TWA VLE-PPT (synthetic and natural)	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	NIOSH	OSHA	OSHA Vacated	Portugal	Russia
Cobalt (powder) (7440-48-4)	TWAs	0.05 mg/m ³ TWA (dust and fume)	0.1 mg/m ³ TWA (dust and fume)	0.05 mg/m ³ TWA (dust and fume)	0.02 mg/m ³ TWA [VLE-MP]	0.01 mg/m ³ TWA (aerosol)
	STELs	Not established	Not established	Not established	Not established	0.05 mg/m ³ STEL (aerosol)
Calcium monocarbonate (471-34-1)	TWAs	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	Not established	Not established	10 mg/m ³ TWA [VLE-MP] (particulate matter containing no Asbestos and <1% Crystalline silica)	Not established
Nickel, massive, ≥ 1 mm (7440-02-0)	TWAs	0.015 mg/m ³ TWA	1 mg/m ³ TWA	1 mg/m ³ TWA	1.5 mg/m ³ TWA [VLE-MP] (inhalable fraction)	Not established
Graphite	TWAs	2.5 mg/m ³ TWA (natural, respirable dust)	15 mg/m ³ TWA (synthetic, total dust); 5 mg/m ³ TWA (synthetic, respirable fraction)	2.5 mg/m ³ TWA (natural, respirable dust); 10 mg/m ³ TWA (synthetic, total dust); 5 mg/m ³ TWA (synthetic, respirable fraction)	2 mg/m ³ TWA [VLE-MP] (all forms except Graphite fibers, respirable fraction)	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Singapore	United Kingdom	United States - California	Venezuela	
Cobalt (powder) (7440-48-4)	TWAs	0.02 mg/m ³ PEL	0.1 mg/m ³ TWA	0.02 mg/m ³ PEL (dust and fume)	0.02 mg/m ³ TWA [VTRE-L-8/40]	

	STELs	Not established	0.3 mg/m3 STEL (calculated)	Not established	Not established
Calcium monocarbonate (471-34-1)	TWAs	Not established	Not established	5 mg/m3 PEL (respirable fraction, listed under Particulates not otherwise regulated); 10 mg/m3 PEL (total dust, listed under Particulates not otherwise regulated)	10 mg/m3 TWA [VTRE-L-8/40
Nickel, massive, ≥ 1 mm (7440-02-0)	TWAs	1 mg/m3 PEL	0.5 mg/m3 TWA	0.5 mg/m3 PEL	1.5 mg/m3 TWA [VTRE-L-8/40 (manufacturing and commercialization limitations, and use restrictions in substances and hazardous mixtures)
	STELs	Not established	1.5 mg/m3 STEL (calculated)	Not established	Not established
Graphite (7782-42-5)	TWAs	2 mg/m3 PEL (respirable dust)	10 mg/m3 TWA (inhalable dust); 4 mg/m3 TWA (respirable dust)	2.5 mg/m3 PEL (natural, respirable dust); 10 mg/m3 PEL (synthetic total dust); 5 mg/m3 PEL (synthetic respirable fraction)	2 mg/m3 TWA [VTRE-L-8/40 (dust)
	STELs	Not established	30 mg/m3 STEL (calculated, inhalable dust); 12 mg/m3 STEL (calculated, respirable dust)	Not established	Not established

Exposure Control Notations

Japan

- Nickel, massive, ≥ 1 mm (7440-02-0): **Sensitizers:** (Group 2 airway sensitizer; Group 1 skin sensitizer)
- Nickel, massive, ≥ 1 mm as Nickel compounds: **Carcinogens:** (Group 1 - Carcinogenic to Humans (Nickel smelting dusts; Evaluation does not necessarily apply to all individuals within the group); Group 2B - Possibly Carcinogenic to Humans (except Nickel carbonyl and Nickel smelting dusts)) | **Sensitizers:** (Group 2 airway sensitizer (Evaluation does not necessarily apply to all individuals within the group); Group 1 skin sensitizer (Evaluation does not necessarily apply to all individuals within the group))
- Cobalt (powder) (7440-48-4): **Carcinogens:** (Group 2B - Possibly Carcinogenic to Humans) | **Sensitizers:** (Group 1 airway sensitizer; Group 1 skin sensitizer)

Mexico

- Cobalt (powder) (7440-48-4): **Carcinogens:** (A3 - Confirmed animal carcinogen (dust and fume))

Egypt

- Calcium monocarbonate (471-34-1): **Nuisance Dusts:** (10 mg/m3 TWA (containing <1% Quartz, total dust); 30 mppcf TWA (containing <1% Quartz, total dust); 3 mg/m3 TWA (containing <1% Quartz, inhalable dust))
- Graphite (7782-42-5): **Nuisance Dusts:** (10 mg/m3 TWA (synthetic, containing <1% Quartz, total dust); 30 mppcf TWA (synthetic, containing <1% Quartz, total dust); 3 mg/m3 TWA (synthetic, containing <1% Quartz, total dust))
- Nickel, massive, ≥ 1 mm (7440-02-0): **Carcinogens:** (Present)
- Cobalt (powder) (7440-48-4): **Carcinogens:** (Confirmed Human Carcinogen)

Portugal

- Nickel, massive, ≥ 1 mm (7440-02-0): **Carcinogens:** (A5 - Not Suspected as a Human Carcinogen)
- Cobalt (powder) (7440-48-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)

Russia

- Nickel, massive, ≥ 1 mm (7440-02-0): **Carcinogens:** (Carcinogen) | **Sensitizers:** (Allergenic substance)
- Cobalt (powder) (7440-48-4): **Sensitizers:** (Allergenic substance)

United Kingdom

- Nickel, massive, ≥ 1 mm (7440-02-0): **Skin:** (Potential for cutaneous absorption)
- Cobalt (powder) (7440-48-4): **Carcinogens:** (Capable of causing cancer and/or heritable genetic damage) | **Sensitizers:** (Capable of causing occupational asthma)

Indonesia

- Cobalt (powder) (7440-48-4): **Carcinogens:** (A3 - confirmed animal carcinogen)

Argentina

- Nickel, massive, ≥ 1 mm (7440-02-0): **Carcinogens:** (A5 - Not Suspected as a human carcinogen)
- Cobalt (powder) (7440-48-4): **Carcinogens:** (A3 - Confirmed animal carcinogen with unknown relevance to humans)

Canada British Columbia

- Nickel, massive, ≥ 1 mm (7440-02-0): **Carcinogens:** (IARC Category 2B - Possible Human Carcinogen) | **Designated Substances:** (IARC Category 2B - Possible Human Carcinogen)
- Cobalt (powder) (7440-48-4): **Carcinogens:** (IARC Category 2B - Possible Human Carcinogen) | **Designated Substances:** (IARC Category 2B - Possible Human Carcinogen)

Canada Manitoba

- Nickel, massive, ≥ 1 mm (7440-02-0): **Carcinogens:** (A5 Not Suspected as a Human Carcinogen)
- Cobalt (powder) (7440-48-4): **Carcinogens:** (A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans)

Canada New Brunswick

- Cobalt (powder) (7440-48-4): **Carcinogens:** (A3 - Animal Carcinogen)

Canada Nova Scotia

- Nickel, massive, ≥ 1 mm (7440-02-0): **Carcinogens:** (A5 - Not Suspected as a Human Carcinogen)
- Cobalt (powder) (7440-48-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)

Canada Quebec

- Cobalt (powder) (7440-48-4): **Carcinogens:** (C3 carcinogen - effect detected in animals)

Canada Saskatchewan

- Nickel, massive, ≥ 1 mm (7440-02-0): **Designated Substances:** (Present)
- Nickel, massive, ≥ 1 mm as Nickel compounds: **Designated Substances:** (Present)
- Cobalt (powder) (7440-48-4): **Designated Substances:** (Present)

France

- Nickel, massive, ≥ 1 mm (7440-02-0): **Carcinogens:** (Carcinogen category 2)

Venezuela

- Nickel, massive, ≥ 1 mm (7440-02-0): **Ceilings:** (Present) | **Sensitizers:** (Sensitizer)
- Cobalt (powder) (7440-48-4): **Ceilings:** (Present) | **Sensitizers:** (Sensitizer)

ACGIH

- Nickel, massive, ≥ 1 mm (7440-02-0): **Carcinogens:** (A5 - Not Suspected as a Human Carcinogen)
- Cobalt (powder) (7440-48-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)

Germany TRGS

- Cobalt (powder) (7440-48-4): **Carcinogens:** (Category 1B (bioavailable, as inhalable dust/aerosol, except hard metals, cobalt containing spinels and organic cobalt desiccants)) | **Developmental Toxins:** (Based on current data, this substance cannot be classified according to the categories in Annex I of the CLP regulation (bioavailable, as inhalable dust/aerosol, except hard metals, cobalt containing spinels and organic cobalt desiccants)) | **Reproductive Toxins:** (Based on current data, this substance cannot be classified according to the categories in Annex I of the CLP regulation (bioavailable; as inhalable dust/aerosol; except hard metals, cobalt containing spinels and organic cobalt desiccants)) | **Germ Cell Mutagens:** (Based on current data, this substance cannot be classified according to the categories in Annex I of the CLP regulation (bioavailable, as inhalable dust/aerosol, except hard metals, cobalt containing spinels and organic cobalt desiccants))

Germany DFG

- Sulfonic acid, petroleum, calcium salt (61789-86-4): **Pregnancy:** (classification not yet possible (respirable fraction))
- Graphite (7782-42-5): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to (inhalable fraction; respirable fraction))
- Nickel, massive, ≥ 1 mm (7440-02-0): **Carcinogens:** (Category 1 (causes cancer in man)) | **Sensitizers:** (respiratory and skin sensitizer (inhalable fraction, respiratory sensitization confirmed for water soluble Nickel compounds only))
- Nickel, massive, ≥ 1 mm as Nickel compounds: **Carcinogens:** (Category 1 (causes cancer in man)) | **Sensitizers:** (respiratory and skin sensitizer (inhalable fraction, respiratory sensitization confirmed for water soluble Nickel compounds only))
- Cobalt (powder) (7440-48-4): **Carcinogens:** (Category 2 (considered to be carcinogenic for man)) | **Sensitizers:** (respiratory and skin sensitizer) | **Skin:** (skin notation)

Exposure Limits Supplemental

Thailand

- Graphite (7782-42-5): **Mineral Dusts:** (15 mppcf TWA)
- Graphite as Particulates not otherwise classified (PNO): **Mineral Dusts:** (15 mppcf TWA (respirable dust); 15 mg/m³ TWA (total dust); 50 mppcf TWA (total dust); 5 mg/m³ TWA (respirable dust))

Argentina

- Nickel, massive, ≥ 1 mm (7440-02-0): **BEIs:** (<5 µg/g Creatinine urine Ni)
- Cobalt (powder) (7440-48-4): **BEIs:** (15 µg/L urine end of shift on the last day of workweek Co (Background); 1 µg/L blood end of shift on the last day of workweek Co (Background, semi-quantitative))

Israel

- Nickel, massive, ≥ 1 mm (7440-02-0): **Action Levels:** (0.750 mg/m³ AL (inhalable, as Ni)) | **Biological Markers of Occupational Exposure:** (15 µg/L Medium: urine)
- Cobalt (powder) (7440-48-4): **Action Levels:** (0.010 mg/m³ AL (as Co)) | **Biological Markers of Occupational Exposure:** (15 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (nonspecific); 1 µg/L Medium: blood Time: end of shift at end of workweek Parameter: Cobalt (nonspecific, nonquantitative))

Venezuela

- Cobalt (powder) (7440-48-4): **Biological Exposure Indices:** (15 µg/L urine end of shift at end of workweek Cobalt (F); 1 µg/L urine end of shift at end of workweek Cobalt (F,Sc))

OSHA

- Graphite (7782-42-5): **Mineral Dusts:** (15 mppcf TWA (natural))
- Graphite as Particulates not otherwise classified (PNO): **Mineral Dusts:** (15 mppcf TWA (respirable fraction); 5 mg/m³ TWA (respirable fraction); 50 mppcf TWA (total dust); 15 mg/m³ TWA (total dust))

ACGIH

- Graphite (7782-42-5): **TLV Basis - Critical Effects:** (pneumoconiosis (all forms except graphite fibers))
- Nickel, massive, ≥ 1 mm (7440-02-0): **TLV Basis - Critical Effects:** (dermatitis; pneumoconiosis)
- Cobalt (powder) (7440-48-4): **BEIs:** (15 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (nonspecific)) | **TLV Basis - Critical Effects:** (asthma; myocardial effects; pulmonary function)

Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

Skin/Body

- Polyvinyl alcohol or nitrile- butyl-rubber gloves. Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWAEV = Time-Weighted Average Exposure Value

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Black semi-solid paste with mild petroleum odor.
Color	Black	Odor	Mild, petroleum.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	Data lacking	Water Solubility	Data lacking
Viscosity	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- No data available

Incompatible materials

- Oxidizing agents.

Hazardous decomposition products

- Carbon oxides; Sulphur oxides; Other hazardous decomposition products may be formed.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Calcium monocarbonate (3% TO 6%)	471-34-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 6450 mg/kg; Irritation: Eye-Rabbit • 750 µg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Multi-dose Toxicity: Ingestion/Oral-Woman TDLo • 4.08 g/kg 30 Day(s)-Intermittent; <i>Vascular:BP elevation not characterized in autonomic section; Gastrointestinal:Changes in structure or function of endocrine pancreas; Biochemical:Metabolism (intermediary):Effect on inflammation or mediation of inflammation</i>
Benzenesulfonic acid, dodecyl-, calcium salt (0.6% TO 3%)	26264-06-2	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1300 mg/kg
Sulfonic acid, petroleum, calcium salt (0.6% TO 3%)	61789-86-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5 g/kg; <i>Gastrointestinal:Hypermotility, diarrhea;</i> Skin-Rabbit LD50 • >5 g/kg
Nickel, massive, ≥ 1 mm (9.95% TO 19.98%)	7440-02-0	Acute Toxicity: Ingestion/Oral-Rat TDLo • 200 mg/kg; <i>Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Behavioral:Somnolence (general depressed activity);</i> Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 500 mg/kg 5 Day(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Related to Chronic Data:Death in the Other Multiple Dose data type field;</i> Inhalation-Rabbit TCLo • 1 mg/m ³ 6 Hour(s) 13 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes;</i> <i>Lungs, Thorax, or Respiration:Changes in lung weight; Blood:Hemorrhage;</i> Inhalation-Rat TCLo • 0.4 mg/m ³ 40 Week(s)-Intermittent; <i>Vascular:Thrombosis distant from injection site;</i> <i>Lungs, Thorax, or Respiration:Other changes;</i> <i>Related to Chronic Data:Death in the Other Multiple Dose data type field;</i> Reproductive: Ingestion/Oral-Rat TDLo • 158 mg/kg (multigenerations); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Effects on Embryo or Fetus:Fetal death;</i> Tumorigen / Carcinogen: Inhalation-Guinea Pig TCLo • 15 mg/m ³ 91 Week(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria;</i> <i>Lungs, Thorax, or Respiration:Tumors;</i> <i>Lungs, Thorax, or Respiration:Bronchiogenic carcinoma</i>

GHS Properties	Classification
Acute toxicity	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Skin corrosion/Irritation	EU/CLP•Data lacking UN GHS 4•Skin Mild Irritation 3 OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Serious eye damage/Irritation	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Skin sensitization	EU/CLP•Skin Sensitizer 1 UN GHS 4•Skin Sensitizer 1A

	OSHA HCS 2012•Skin Sensitizer 1A WHMIS 2015•Skin Sensitizer 1A
Respiratory sensitization	EU/CLP•Data lacking UN GHS 4•Respiratory Sensitizer 1B OSHA HCS 2012•Respiratory Sensitizer 1A WHMIS 2015•Respiratory Sensitizer 1B
Aspiration Hazard	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Carcinogenicity	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Germ Cell Mutagenicity	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
Toxicity for Reproduction	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
STOT-SE	EU/CLP•Data lacking UN GHS 4•Data lacking OSHA HCS 2012•Data lacking WHMIS 2015•Data lacking
STOT-RE	EU/CLP•Specific Target Organ Toxicity Repeated Exposure 1 UN GHS 4•Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012•Specific Target Organ Toxicity Repeated Exposure 2 WHMIS 2015•Specific Target Organ Toxicity Repeated Exposure 2

Potential Health Effects

Inhalation

Acute • Under normal conditions of use, no health effects are expected.

(Immediate)

Chronic (Delayed) • Repeated and prolonged exposure may cause sensitization of the respiratory system.

Skin

Acute • Causes mild skin irritation. May cause skin sensitization. Symptoms include redness, and skin rash.

(Immediate)

Chronic (Delayed) • No data available

Eye

Acute • No data available

(Immediate)

Chronic (Delayed) • No data available

Ingestion

Acute • Under normal conditions of use, no health effects are expected.

(Immediate)

Chronic (Delayed) • No data available

Other

Chronic (Delayed) • May cause damage to lungs through prolonged or repeated exposure.

Carcinogenic Effects			
	CAS	IARC	NTP
Cobalt (powder)	7440-48-4	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen

Nickel, massive, ≥ 1 mm	7440-02-0	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
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Key to abbreviations

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information

Toxicity

- Material data lacking.

Persistence and degradability

- Material data lacking.

Bioaccumulative potential

- Material data lacking.

Mobility in Soil

- Material data lacking.

Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

Special precautions for user

- None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

• Acute, Chronic

State Right To Know		
Component	CAS	PA
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	No
Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Yes
Calcium monocarbonate	471-34-1	No
Cobalt (powder)	7440-48-4	Yes
Graphite	7782-42-5	Yes
Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	No
Nickel, massive, ≥ 1 mm	7440-02-0	Yes
Sulfonic acid, petroleum, calcium salt	61789-86-4	No

Inventory						
Component	CAS	Australia AICS	Canada DSL	Canada NDSL	China	EU EINECS
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Yes	Yes	No	Yes	Yes
Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Yes	Yes	No	Yes	Yes
Calcium monocarbonate	471-34-1	Yes	Yes	No	Yes	Yes
Cobalt (powder)	7440-48-4	Yes	Yes	No	Yes	Yes
Graphite	7782-42-5	Yes	Yes	No	Yes	Yes
Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Yes	Yes	No	Yes	Yes
Nickel, massive, ≥ 1 mm	7440-02-0	Yes	Yes	No	Yes	Yes
Sulfonic acid, petroleum, calcium salt	61789-86-4	Yes	Yes	No	Yes	Yes

Inventory (Con't.)				
Component	CAS	EU ELNICS	Japan ENCS	TSCA
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	No	No	Yes
Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	No	Yes	Yes
Calcium monocarbonate	471-34-1	No	Yes	Yes
Cobalt (powder)	7440-48-4	No	No	Yes
Graphite	7782-42-5	No	No	Yes
Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	No	No	Yes
Nickel, massive, ≥ 1 mm	7440-02-0	No	No	Yes

Sulfonic acid, petroleum, calcium salt	61789-86-4	No	Yes	Yes
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United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

•Sulfonic acid, petroleum, calcium salt	61789-86-4	Not Listed
•Cobalt (powder)	7440-48-4	carcinogen, 7/1/1992 (powder)
•Nickel, massive, ≥ 1 mm	7440-02-0	carcinogen, 10/1/1989 (metallic)
•Calcium monocarbonate	471-34-1	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

•Sulfonic acid, petroleum, calcium salt	61789-86-4	Not Listed
•Cobalt (powder)	7440-48-4	Not Listed
•Nickel, massive, ≥ 1 mm	7440-02-0	Not Listed
•Calcium monocarbonate	471-34-1	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

•Sulfonic acid, petroleum, calcium salt	61789-86-4	Not Listed
•Cobalt (powder)	7440-48-4	Not Listed
•Nickel, massive, ≥ 1 mm	7440-02-0	Not Listed
•Calcium monocarbonate	471-34-1	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

•Sulfonic acid, petroleum, calcium salt	61789-86-4	Not Listed
•Cobalt (powder)	7440-48-4	Not Listed
•Nickel, massive, ≥ 1 mm	7440-02-0	Not Listed
•Calcium monocarbonate	471-34-1	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

•Sulfonic acid, petroleum, calcium salt	61789-86-4	Not Listed
•Cobalt (powder)	7440-48-4	Not Listed
•Nickel, massive, ≥ 1 mm	7440-02-0	Not Listed
•Calcium monocarbonate	471-34-1	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

•Sulfonic acid, petroleum, calcium salt	61789-86-4	Not Listed
•Cobalt (powder)	7440-48-4	Not Listed
•Nickel, massive, ≥ 1 mm	7440-02-0	Not Listed
•Calcium monocarbonate	471-34-1	Not Listed
•Graphite	7782-42-5	Not Listed
•Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	Not Listed
•Benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	Not Listed
•Mineral oil, petroleum distillates, solvent-refined (mild) heavy paraffinic	64741-88-4	Not Listed

Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Other Information

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

Section 16 - Other Information

Relevant Phrases (code & full text)

- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H350 - May cause cancer.
- H351 - Suspected of causing cancer.
- H412 - Harmful to aquatic life with long lasting effects

Revision Date

- 01/November/2017

Last Revision Date

- 01/November/2017

Preparation Date

- 01/November/2017

Disclaimer/Statement of Liability

- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key to abbreviations

NDA = No Data Available