

SAFETY DATA SHEET

Issue Date 21-Jul-2015 Revision Date 12-Feb-2019 Version I

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Cobalt Alloy Non-Respirable Powder

Other means of identification

Product Code PM016 UN/ID No. 3077

Synonyms Cobalt Alloy Non-Respirable Powder: Vitallium, Alloy 6, Alloy 6M, Alloy 25, CP Co, Alloy

Co-30Ni, CoCrMo

Recommended use of the chemical and restrictions on use

Recommended UseCobalt alloy product manufacture.

Uses advised against

Details of the supplier of the safety data sheet

Manufacturer Address

ATI, 1000 Six PPG Place, Pittsburgh, PA

15222 USA

Emergency telephone number

Emergency Telephone Chemtrec: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Respiratory sensitization	Category 1B
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Harmful if swallowed

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause cancer

Suspected of damaging fertility or the unborn child

Causes damage to the respiratory tract through prolonged or repeated exposure if inhaled

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects



Appearance Powder Physical state Solid Odor Odorless

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wear protective gloves

Wash hands thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume

In case of inadequate ventilation wear respiratory protection

Avoid release to the environment

Precautionary Statements - Response

Collect spillage

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

When product is subjected to welding, burning, melting, sawing, brazing, grinding, buffing, polishing, or other similar heat-generating processes, the following potentially hazardous airborne particles and/or fumes may be generated: Titanium dioxide an IARC Group 2B carcinogen.

Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer.

Soluble molybdenum compounds such as molybdenum trioxide may cause lung irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Cobalt Alloy Non-Respirable Powder: Vitallium, Alloy 6, Alloy 6M, Alloy 25, CP Co, Alloy Co-30Ni. CoCrMo.

Chemical Name	CAS No.	Weight-%
Cobalt	7440-48-4	50 - 100
Niobium (Columbium)	7440-03-1	0 - 50
Nickel	7440-02-0	0 - 30
Chromium	7440-47-3	0 - 30
Tantalum	7440-25-7	0 - 25
Zirconium	7440-67-7	0 - 20
Iron	7439-89-6	0 - 19
Tungsten	7440-33-7	0 - 15
Boron	7440-42-8	0 - 10
Aluminum	7429-90-5	0 - 10
Molybdenum	7439-98-7	0 - 10
Titanium	7440-32-6	0 - 10
Silicon	7440-21-3	0 - 2
Manganese	7439-96-5	0 - 2

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4. FIRST AID MEASURES

First aid measures

Eye contact In the case of particles coming in contact with eyes during processing, treat as with any

foreign object.

Skin Contact In the case of skin irritation or allergic reactions see a physician. Wash off immediately with

soap and plenty of water.

Inhalation If excessive amounts of smoke, fume, or particulate are inhaled during processing, remove

to fresh air and consult a qualified health professional. In the case of asthma symptoms or

breathing difficulties call a physician.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms May cause allergic skin reaction. May cause allergy or asthma symptoms or breathing

difficulties if inhaled. May cause acute gastrointestinal effects if swallowed.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Product not flammable in the form as distributed, flammable as finely divided particles or pieces resulting from processing of this product. Isolate large fires and allow to burn out. Smother small fires with salt (NaCl) or class D dry powder fire extinguisher.

Unsuitable extinguishing media Do not spray water on burning metal as an explosion may occur. This explosive

characteristic is caused by the hydrogen and steam generated by the reaction of water with

the burning material.

Specific hazards arising from the chemical

Intense heat. Very fine, high surface area material resulting from grinding, buffing, polishing, or similar processes of this product may ignite spontaneously at room temperature. WARNING: Fine particles resulting from grinding, buffing, polishing, or similar processes of this product may form combustible dust-air mixtures. Keep particles away from all ignition sources including heat, sparks, and flame. Prevent dust accumulations to minimize combustible dust hazard.

Hazardous combustion products Titanium dioxide an IARC Group 2B carcinogen. Hexavalent Chromium (Chromium VI) may

cause lung, nasal, and/or sinus cancer. Soluble molybdenum compounds such as

molybdenum trioxide may cause lung irritation.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment as required.

For emergency responders

Use personal protective equipment as required. Follow Emergency Response Guidebook,

Guide No. 171, EXCEPT for FIRE follow Emergency Response Guidebook, Guide No. 170.

North America; English

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Environmental precautions

Environmental precautionsCollect spillage to prevent release to the environment.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Sweep or shovel material into dry containers. Avoid creating uncontrolled dust.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Very fine, high surface area material resulting from grinding, buffing, polishing, or similar

processes of this product may ignite spontaneously at room temperature. WARNING: Fine particles resulting from grinding, buffing, polishing, or similar processes of this product may form combustible dust-air mixtures. Keep particles away from all ignition sources including heat, sparks, and flame. Prevent dust accumulations to minimize combustible dust hazard.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity).

Incompatible materialsDissolves in hydrofluoric acid. Ignites in the presence of fluorine. When heated above

200°C, reacts exothermically with the following: Chlorine, bromine, halocarbons, carbon

tetrachloride, carbon tetrafluoride, and freon.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL
Cobalt	TWA: 0.02 mg/m ³ TWA: 0.02 mg/m ³ Co	TWA: 0.1 mg/m³ dust and fume
7440-48-4		_
Niobium (Columbium)	-	-
7440-03-1		
Nickel	TWA: 1.5 mg/m³ inhalable fraction	TWA: 1 mg/m ³
7440-02-0		
Chromium	TWA: 0.5 mg/m ³	TWA: 1 mg/m ³
7440-47-3		
Tantalum	-	TWA: 5 mg/m ³
7440-25-7		
Zirconium	STEL: 10 mg/m ³ STEL: 10 mg/m ³ Zr	TWA: 5 mg/m³ Zr
7440-67-7	TWA: 5 mg/m³ TWA: 5 mg/m³ Zr	(vacated) STEL: 10 mg/m³ (vacated) STEL:
		10 mg/m³ Zr
Iron	-	-
7439-89-6		
Tungsten	STEL: 10 mg/m ³ STEL: 10 mg/m ³ W	(vacated) STEL: 10 mg/m³ (vacated) STEL:
7440-33-7	TWA: 5 mg/m³ TWA: 5 mg/m³ W	10 mg/m³ W
Titanium	-	-
7440-32-6		
Molybdenum	TWA: 10 mg/m³ inhalable fraction	-
7439-98-7	TWA: 3 mg/m³ respirable fraction	
Boron	-	-
7440-42-8		
Aluminum	TWA: 1 mg/m³ respirable fraction	TWA: 15 mg/m³ total dust
7429-90-5		TWA: 5 mg/m³ respirable fraction
Silicon	-	TWA: 15 mg/m³ total dust
7440-21-3		TWA: 5 mg/m³ respirable fraction
Manganese	TWA: 0.02 mg/m³ respirable fraction	(vacated) STEL: 3 mg/m³ fume
7439-96-5	TWA: 0.1 mg/m ³ inhalable fraction TWA:	(vacated) Ceiling: 5 mg/m ³
	0.02 mg/m ³ Mn	Ceiling: 5 mg/m³ fume Ceiling: 5 mg/m³ Mn

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TWA: 0.1 mg/m³ Mn

Appropriate engineering controls

Engineering Controls Avoid generation of uncontrolled particles.

Individual protection measures, such as personal protective equipment

Eye/face protection When airborne particles may be present, appropriate eye protection is recommended. For

example, tight-fitting goggles, foam-lined safety glasses or other protective equipment that

shield the eyes from particles.

Skin and body protection Fire/flame resistant/retardant clothing may be appropriate during hot work with the product.

Wear protective gloves.

Respiratory protection When particulates/fumes/gases are generated and if exposure limits are exceeded or

irritation is experienced, proper 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.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid

AppearancePowderOdorOdorlessColormetallic gray or silverOdor thresholdNot applicable

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH - Not applicable

Melting point/freezing point 1370-1480 °C 2500-2700 °F

Boiling point / boiling range - Flash point -

Evaporation rate - Not applicable

Flammability (solid, gas) - Product not flammable in the form as distributed, flammable as finely divided particles or pieces

resulting from processing of this product

Flammability Limit in Air

Upper flammability limit: - Lower flammability limit: -

Vapor pressure-Not applicableVapor density-Not applicable

Specific Gravity 8.0-8.5 - Water solubility Insoluble

Solubility in other solvents - Not applicable
Partition coefficient - Not applicable
Autoignition temperature - Not applicable
Decomposition temperature - Not applicable
Kinematic viscosity - Not applicable
Dynamic viscosity - Not applicable
Not applicable

Explosive properties Not applicable Oxidizing properties Not applicable

Other Information

Softening point - Molecular weight -

VOC Content (%) Not applicable

Density -

Bulk density

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Dust formation and dust accumulation.

Incompatible materials

Dissolves in hydrofluoric acid. Ignites in the presence of fluorine. When heated above 200°C, reacts exothermically with the following: Chlorine, bromine, halocarbons, carbon tetrachloride, carbon tetrafluoride, and freon.

Hazardous Decomposition Products

When product is subjected to welding, burning, melting, sawing, brazing, grinding, buffing, polishing, or other similar heat-generating processes, the following potentially hazardous airborne particles and/or fumes may be generated:. Titanium dioxide an IARC Group 2B carcinogen. Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer. Soluble molybdenum compounds such as molybdenum trioxide may cause lung irritation.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Cobalt-containing alloys may cause sensitization by inhalation. May cause cancer by

inhalation. Causes damage to the respiratory tract through prolonged or repeated exposure

if inhaled.

Eye contact Product not classified.

Skin Contact May cause sensitization by skin contact.

Ingestion Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Cobalt 7440-48-4	550 mg/kg bw	>2000 mg/kg bw	<0.05 mg/L
Niobium (Columbium) 7440-03-1	> 10,000 mg/kg bw	> 2000 mg/kg bw	-
Nickel 7440-02-0	> 9000 mg/kg bw	-	> 10.2 mg/L
Chromium 7440-47-3	> 3400 mg/kg bw	-	> 5.41 mg/L
Tantalum 7440-25-7	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.18 mg/L
Zirconium 7440-67-7	> 5000 mg/kg bw	-	>4.3 mg/L
Iron 7439-89-6	98,600 mg/kg bw	-	> 0.25 mg/L
Tungsten 7440-33-7	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.4 mg/L
Titanium 7440-32-6	> 5000 mg/kg bw	-	-

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Molybdenum 7439-98-7	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.10 mg/L
Boron 7440-42-8	> 2000 mg/kg bw	-	> 5.08 mg/L
Aluminum 7429-90-5	15,900 mg/kg bw	-	> 1 mg/L
Silicon 7440-21-3	> 5000 mg/kg bw	> 5000 mg/kg bw	> 2.08 mg/L
Manganese 7439-96-5	>2000 mg/kg bw	-	>5.14 mg/L

Information on toxicological effects

Symptoms May cause sensitization by skin contact. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. May cause acute gastrointestinal effects if swallowed.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity Harmful if swallowed. Cobalt-containing powders may be fatal if inhaled.

Skin corrosion/irritation Product not classified. **Serious eye damage/eye irritation** Product not classified.

Sensitization May cause sensitization by skin contact. Cobalt-containing alloys may cause sensitization

by inhalation.

Germ cell mutagenicity Product not classified.

Carcinogenicity May cause cancer by inhalation.

Chemical Name	ACGIH	IARC	NTP	OSHA
Cobalt	A3	Group 2A	Known	X
7440-48-4		Group 2B		
Nickel		Group 1	Known	X
7440-02-0		Group 2B	Reasonably Anticipated	
Chromium		Group 3		
7440-47-3		·		

Reproductive toxicity Possible risk of impaired fertility.

STOT - single exposure Product not classified.

STOT - repeated exposureCauses disorder and damage to the: Respiratory System.

Aspiration hazard Product not classified.

12. ECOLOGICAL INFORMATION

This product contains a chemical which, although not listed, meets the IMDG criteria for being a marine pollutant.

Ecotoxicity

This product as shipped is classified for aquatic chronic toxicity. This product as shipped is classified for aquatic acute toxicity.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Cobalt 7440-48-4	The 72 h EC50 of cobalt dichloride to Pseudokirchneriella subcapitata was 144 ug of Co/L.	The 96h LC50 of cobalt dichloride ranged from 1.5 mg Co/L for Oncorhynchus mykiss to 85 mg Co/L for Danio rerio.	The 3 h EC50 of cobalt dichloride for activated sludge was 120 mg of Co/L.	The 48 h LC50 of cobalt dichloride ranged from 0.61 mg Co/L for Ceriodaphnia dubia tested in soft, DOM-free water to >1800mg Co/L for Tubifex tubifex in very hard water.
Niobium (Columbium) 7440-03-1	-	-	-	
Nickel 7440-02-0	NOEC/EC10 values range from 12.3 µg/l for Scenedesmus accuminatus to 425 µg/l for Pseudokirchneriella subcapitata.	The 96h LC50s values range from 0.4 mg Ni/L for Pimephales promelas to 320 mg Ni/L for Brachydanio rerio.	for activated sludge was 33	The 48h LC50s values range from 0.013 mg Ni/L for Ceriodaphnia dubia to 4970 mg Ni/L for Daphnia magna.

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Chromium	_	_		_
7440-47-3				
Tantalum 7440-25-7	-	-	-	-
Zirconium 7440-67-7	The 14 d NOEC of zirconium dichloride oxide to Chlorella vulgaris was greater than 102.5 mg of Zr/L.	The 96 h LL50 of zirconium to Danio rerio was greater than 74.03 mg/L.	-	The 48 h EC50 of zirconium dioxide to Daphnia magna was greater than 74.03 mg of Zr/L.
Iron 7439-89-6	-	The 96 h LC50 of 50% iron oxide black in water to Danio rerio was greater than 10,000 mg/L.	greater than 10,000 mg/L.	The 48 h EC50 of iron oxide to Daphnia magna was greater than 100 mg/L.
Tungsten 7440-33-7	The 72 h EC50 of sodium tungstate to Pseudokirchnerella subcapitata was 31.0 mg of W/L.	The 96 h LC50 of sodium tungstate to Danio rerio was greater than 106 mg of W/L.	The 30 min EC50 of sodium tungstate for activated sludge were greater than 1000 mg/L.	The 48 h EC50 of sodium tungstate to Daphnia magna was greater than 96 mg of W/L.
Titanium 7440-32-6	The 72 h EC50 of titanium dioxide to Pseudokirchnerella subcapitata was 61 mg of TiO2/L.	The 96 h LC50 of titanium dioxide to Cyprinodon variegatus was greater than 10,000 mg of TiO2/L. The 96 h LC50 of titanium dioxide to Pimephales promelas was greater than 1,000 mg of TiO2/L.	The 3 h EC50 of titanium dioxide for activated sludge were greater than 1000 mg/L.	The 48 h EC50 of titanium dioxide to Daphnia Magna was greater than 1000 mg of TiO2/L.
Molybdenum 7439-98-7	The 72 h EC50 of sodium molybdate dihydrate to Pseudokirchneriella subcapitata was 362.9 mg of Mo/L.	The 96 h LC50 of sodium molybdate dihydrate to Pimephales promelas was 644.2 mg/L	The 3 h EC50 of molybdenum trioxide for activated sludge was 820 mg/L.	The 48 h LC50 of sodium molybdate dihydrate to Ceriodaphnia dubia was 1,015 mg/L. The 48 h LC50 of sodium molybdate dihydrate to Daphnia magna was greater than 1,727.8 mg/L.
Boron 7440-42-8	The 72-h EC50 value for reduction of biomass of Pseudokirchneriella subcapitata exposed to Boric acid at pH 7.5 to 8.3 was 40.2 mg/L.	The 96-hr LC50 for Pimephales promelas exposed to Boric acid (82%)/borax (18%) mixture was 79.7 mg/L with water hardness of 91 mg/L and water pH of 8.0.	The 3 h NOEC of boric acid for activated sludge ranged from 17.5 to 20 mg/L.	The 48-hr LC50 for Ceriodaphnia dubia exposed to Boric acid/borax mixture ranged from 91 to 165 mg/L with pH ranging from 6.7 to 8.4.
Aluminum 7429-90-5	The 96-h EC50 values for reduction of biomass of Pseudokirchneriella subcapitata in AAP-Medium at pH 6, 7, and 8 were estimated as 20.1, 5.4, and 150.6 µg/L, respectively, for dissolved AI.	The 96 h LC50 of aluminum to Oncorhynchus mykiss was 7.4 mg of Al/L at pH 6.5 and 14.6 mg of Al/L at pH 7.5	-	The 48-hr LC50 for Ceriodaphnia dubia exposed to Aluminium chloride increased from 0.72 to greater than 99.6 mg/L with water hardness increasing from 25 to 200 mg/L.
Silicon 7440-21-3	The 72 h EC50 of sodium metasilicate pentahydrate to Pseudokirchnerella subcapitata was greater than 250 mg/L.		-	-
Manganese 7439-96-5	The 72 h EC50 of manganese to Desmodesmus subspicatus was 2.8 mg of Mn/L.	The 96 h LC50 of manganese to Oncorhynchus mykiss was greater than 3.6 mg of Mn/L	The 3 h EC50 of manganese for activated sludge was greater than 1000 mg/L.	The 48 h EC50 of manganese to Daphnia magna was greater than 1.6 mg/L.

Persistence and degradability

Bioaccumulation

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Revision Date 12-Feb-2019

Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and Disposal of wastes

regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Chemical Name	RCRA - D Series Wastes
Chromium	5.0 mg/L regulatory level
7440-47-3	

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

14. TRANSPORT INFORMATION

Regulated DOT UN/ID No. 3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s. (cobalt alloy powder) [include "nickel"

and ", RQ" if RQ is exceeded]

Hazard Class Ш Packing Group

Reportable Quantity (RQ) "(RQ)", if quantity with particles smaller than 100 micrometers (0.004 inches) in an

individual package equals or exceeds the reportable quantity (RQ) of 5000 pounds of

chromium, 5000 pounds of copper, or 100 pounds of nickel.

Special Provisions 8, 146, 335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33

Marine pollutant This product contains a chemical which, although not listed, meets the IMDG criteria for

being a marine pollutant.

Emergency Response Guide

Number

Guide No. 171, Except for FIRE follow Guide No. 170

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS IECSC** Complies Complies **KECL PICCS** Not Listed **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

North America; English

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Cobalt - 7440-48-4	7440-48-4	50 - 100	0.1
Nickel - 7440-02-0	7440-02-0	0 - 30	0.1
Chromium - 7440-47-3	7440-47-3	0 - 30	1.0
Manganese - 7439-96-5	7439-96-5	0 - 2	1.0

SARA 311/312 Hazard Categories

Acute health hazard

Chronic Health Hazard

Fire hazard

Sudden release of pressure hazard

No

Reactive Hazard

Yes

Yes

Yes

No

No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Nickel 7440-02-0		X	Х	
Chromium 7440-47-3		Х	Х	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs
Nickel 7440-02-0	100 lb
Chromium 7440-47-3	5000 lb

US State Regulations

California Proposition 65

This product contains the Proposition 65 chemicals listed below. Proposition 65 warning label available at ATImetals.com.

Chemical Name	California Proposition 65	
Cobalt - 7440-48-4	Carcinogen	
Nickel - 7440-02-0	Carcinogen	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Cobalt 7440-48-4	X	X	Х
Nickel 7440-02-0	X	X	Х
Chromium 7440-47-3	Х	Х	Х
Tantalum 7440-25-7	X	X	Х
Zirconium 7440-67-7	X	X	Х
Tungsten 7440-33-7	X	X	Х
Titanium 7440-32-6	Х		
Molybdenum 7439-98-7	Х	X	Х
Aluminum 7429-90-5	Х	X	Х
Silicon	X	X	Х

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7440-21-3			
Manganese	X	X	X
7439-96-5			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 2* Flammability 1 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend *= Chronic Health Hazard

Issue Date 21-Jul-2015
Revision Date 12-Feb-2019
Revision Note

Updated Section(s): 1, 2, 3, 5, 7, 9, 10, 11, 12, 14, 15

Note:

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.

End of Safety Data Sheet

Additional information available Safety data sheets and labels available at ATImetals.com

from: