

SAFETY DATA SHEET

Revision Date 28-Nov-2018

Version 5

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product CodeFRP005Product NameTool Steel

Synonyms Tool Steel: NON-MAGNETIC GRADE-9, AL 599 ARMOR PLATE, CRCS 1006, SAE 1006,

CRCS 1008-170, SAE 1008, 52100, ATI 200 Non Magnetic, ATI 200N Non Magnetic, TOOL STEEL A2, ROLOY NO. 2, TOOL STEEL A6, TOOL STEEL A7, ATI 521™ ARMOR PLATE, HOT WORK TOOL STEEL H13, ATI K12®, ATI K12®-MIL ARMOR PLATE, TOOL STEEL L6, HIGH SPEED TOOL STEEL MUSTANG, M2, HIGH SPEED TOOL STEEL M3, TOOL STEEL O1, TOOL STEEL O2, OIL HARDENING TOOL STEEL TRUGLIDE, 06, TOOL STEEL SHOCK RESISTING S5, TOOL STEEL SHOCK RESISTING S7, TOOL STEEL - ERG, TOOL STEEL 152, Tool Steel 251, 533, Tool Steel 4335, Tool Steel 4340, 31Cr Mo V, Tool Steel A 25, TOOL STEEL A3, AL TOOL STEEL A8, AL TOOL STEEL A8 MOD, Chipper Knife, TOOL STEEL D7, HOT WORK TOOL STEEL H11, IRON, TOOL STEEL L2 MODIFIED, TOOL STEEL W2, TOOL STEEL CRU-WEAR, Vascowear

Contains Cobalt, Nickel

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

Recommended Use Tool steel product manufacture

Uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer

ATI, 1000 Six PPG Place, Pittsburgh, PA 15222 USA

1.4. Emergency telephone number

Emergency Telephone Chemtrec: +1-703-741-5970

Section 2: HAZARDS IDENTIFICATION

This product is an article and, as such, does not present a hazard to human health by inhalation or ingestion

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin sensitisation	Category 1
Carcinogenicity	Category 1B
Specific target organ toxicity — repeated exposure	Category 2

2.2. Label elements

Emergency Overview

Danger

Hazard statements

May cause an allergic skin reaction

May cause cancer

May cause damage to respiratory tract through prolonged or repeated exposure if inhaled



Appearance Various massive product forms

Physical state Solid

Odour Odourless

Precautionary Statements - Prevention

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

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

2.3 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:: Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer, Soluble molybdenum compounds such as molybdenum trioxide may cause lung irritation, Vanadium pentoxide (V2O5) affects eyes, skin, respiratory system.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms

Tool Steel: NON-MAGNETIC GRADE-9, AL 599 ARMOR PLATE, CRCS 1006, SAE 1006, CRCS 1008-170, SAE 1008, 52100, ATI 200 Non Magnetic, ATI 200N Non Magnetic, TOOL STEEL A2, ROLOY NO. 2, TOOL STEEL A6, TOOL STEEL A7, ATI 521™ ARMOR PLATE, HOT WORK TOOL STEEL H13, ATI K12®, ATI K12®-MIL ARMOR PLATE, TOOL STEEL L6, HIGH SPEED TOOL STEEL MUSTANG, M2, HIGH SPEED TOOL STEEL M3, TOOL STEEL O1, TOOL STEEL O2, OIL HARDENING TOOL STEEL TRUGLIDE, 06, TOOL STEEL SHOCK RESISTING S5, TOOL STEEL SHOCK RESISTING S7, TOOL STEEL - ERG, TOOL STEEL 152, Tool Steel 251, 533, Tool Steel 4335, Tool Steel 4340, 31Cr Mo V, Tool Steel A 25, TOOL STEEL A3, AL TOOL STEEL A8, AL TOOL STEEL A8 MOD, Chipper Knife, TOOL STEEL D7, HOT WORK TOOL STEEL H11, IRON, TOOL STEEL L2 MODIFIED, TOOL STEEL W2, TOOL STEEL CRU-WEAR, Vascowear.

Chemical Name	EC No	CAS No	Weight-%
Iron	231-096-4	7439-89-6	Balance
Manganese	231-105-1	7439-96-5	<12.5
Chromium	231-157-5	7440-47-3	<5.5
Nickel	231-111-4	7440-02-0	<3.5
Molybdenum	231-107-2	7439-98-7	<1.75
Silicon	231-130-8	7440-21-3	<1.5
Vanadium	231-171-1	7440-62-2	<1.2
Cobalt	213-158-0	7440-48-4	<0.5

Section 4: FIRST AID MEASURES

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4.1. Description of first aid measures

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

to fresh air and consult a qualified health professional.

Skin Contact In the case of skin allergic reactions see a doctor.

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

foreign object.

Ingestion Not an expected route of exposure.

4.2. 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.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Intense heat. 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 minimise combustible dust hazard.

Hazardous combustion products Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer; Soluble molybdenum compounds such as molybdenum trioxide may cause lung irritation, Vanadium pentoxide (V2O5) affects eyes, skin, respiratory system.

5.3. Advice for firefighters

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

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required.

For emergency responders

Use personal protective equipment as required.

6.2. Environmental precautions

Not applicable to massive product.

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6.3. Methods and material for containment and cleaning up

Methods for containment Not applicable to massive product. Not applicable to massive product. Methods for cleaning up

6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

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 minimise combustible dust hazard.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep chips, turnings, dust, and other small particles away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials

Dissolves in hydrofluoric acid.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters Chamical Name

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Iron 7439-89-6	-	-	-	-	-
Manganese 7439-96-5	-	STEL: 1.5 mg/m³ TWA: 0.5 mg/m³	TWA: 1 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m³ TWA: 0.02 mg/m³ Ceiling / Peak: 1.6 mg/m³ Ceiling / Peak: 0.16 mg/m³ TWA: 0.5 mg/m³
Chromium 7440-47-3	TWA: 2 mg/m ³	STEL: 1.5 mg/m ³ TWA: 0.5 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³
Nickel 7440-02-0	-	STEL: 1.5 mg/m ³ TWA: 0.5 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³	Skin
Molybdenum 7439-98-7	-	-	-	TWA: 10 mg/m ³ TWA: 3 mg/m ³	-
Silicon 7440-21-3	-	STEL: 30 ppm STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³	TWA: 10 mg/m ³	-	-
Vanadium 7440-62-2	-	-	-	-	Skin
Cobalt	-	STEL: 0.3 mg/m ³	-	TWA: 0.02 mg/m ³	Skin

7440-48-4		TWA: 0.1 mg/m ³			
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Iron 7439-89-6	-	-	-	-	-
Manganese 7439-96-5	-	TWA: 0.2 mg/m ³	-	TWA: 0.2 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.1 mg/m ³
Chromium 7440-47-3	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³
Nickel 7440-02-0	-	TWA: 1.5 mg/m ³	-	TWA: 1 mg/m³ TWA: 0.1 mg/m³	TWA: 0.05 mg/m
Molybdenum 7439-98-7	-	TWA: 10 mg/m ³ TWA: 3 mg/m ³	-	TWA: 0.5 mg/m ³	-
Silicon 7440-21-3	-	-	-	-	TWA: 10 mg/m ³
Vanadium 7440-62-2	-	-	-	-	-
Cobalt 7440-48-4	-	TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³	TWA: 0.01 mg/m
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Iron 7439-89-6	-	-	-	-	-
Manganese 7439-96-5	STEL 2 mg/m³ TWA: 0.5 mg/m³	TWA: 0.5 mg/m ³	TWA: 0.3 mg/m ³	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ STEL: 3 ppm STEL: 0.3 mg/m ³	TWA: 0.2 mg/m ³ STEL: 3 mg/m ³
Chromium 7440-47-3	TWA: 2 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³	TWA: 2 mg/m ³
Nickel 7440-02-0	-	TWA: 0.5 mg/m ³	TWA: 0.25 mg/m ³	TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³	TWA: 0.5 mg/m ³
Molybdenum 7439-98-7	STEL 20 mg/m ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³	STEL: 10 mg/m ³ TWA: 4 mg/m ³	-	TWA: 0.5 mg/m ²
Silicon 7440-21-3	-	TWA: 3 mg/m ³	-	TWA: 10 mg/m ³ STEL: 20 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³
Vanadium 7440-62-2	STEL 1 mg/m ³ TWA: 0.5 mg/m ³	-	-	TWA: 0.2 mg/m ³ Ceiling: 0.05 mg/m ³ STEL: 0.6 mg/m ³	-
Cobalt 7440-48-4	Skin	Skin TWA: 0.05 mg/m ³	STEL: 0.2 mg/m ³ TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³ STEL: 0.06 mg/m ³	TWA: 0.1 mg/m ²

Derived No Effect Level (DNEL) No DNELs are available for this product as a whole

Predicted No Effect Concentration

No PNECs are available for this product as a whole.

(PNEC)

8.2. Exposure controls

Engineering Controls Avoid generation of uncontrolled particles.

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.

Cut-resistant gloves and/or protective clothing may be appropriate when sharp surfaces are

present.

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 contaminate concentrations. Respiratory protection must be provided in accordance with current local

regulations.

Environmental exposure controls Section 6: ACCIDENTAL RELEASE MEASURES.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Solid

AppearanceVarious massive product formsOdourOdourlessColourmetallic, grey or SilverOdour thresholdNot applicable

Property Values Remarks • Method

pH -

Melting point/freezing point 1430-1540 °C / 2600-2800 °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

Vapour pressure - Not applicable Vapour density - Not applicable

Specific Gravity 7-9
Water solubility Insoluble

Solubility(ies)

Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

Explosive properties Not applicable Oxidising properties Not applicable

9.2. Other information

Softening point - Molecular weight -

VOC Content (%) Not applicable

Density - Bulk density -

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not applicable .

10.2. Chemical stability

Stable under normal conditions.

Explosion data

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

10.3. Possibility of hazardous reactions

Hazardous polymerisation

Hazardous polymerisation does not occur.

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

Dust formation and dust accumulation;

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10.5. Incompatible materials

Dissolves in hydrofluoric acid.

10.6. 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:: Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer; Soluble molybdenum compounds such as molybdenum trioxide may cause lung irritation. Vanadium pentoxide (V2O5) affects eyes, skin, respiratory system.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

Inhalation Not an expected route of exposure for product in massive form.

Eye contact Not an expected route of exposure for product in massive form.

Skin Contact Nickel or Cobalt containing alloys may cause sensitisation by skin contact.

Ingestion Not an expected route of exposure for product in massive form.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron	98,600 mg/kg bw	-	> 0.25 mg/L
Manganese	>2000 mg/kg bw	-	>5.14 mg/L
Chromium	> 3400 mg/kg bw	-	> 5.41 mg/L
Nickel	> 9000 mg/kg bw	-	> 10.2 mg/L
Molybdenum	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.10 mg/L
Silicon	> 5000 mg/kg bw	> 5000 mg/kg bw	> 2.08 mg/L
Vanadium	> 2000 mg/kg bw	-	-
Cobalt	550 mg/kg bw	>2000 mg/kg bw	<0.05 mg/L

Information on toxicological effects

Symptoms Nickel or Cobalt containing alloys may cause sensitisation by skin contact. May cause

allergy or asthma symptoms or breathing difficulties if inhaled.

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

Acute toxicity Product not classified.

Skin corrosion/irritation Product not classified.

Serious eye damage/eye irritation Product not classified.

Sensitisation Nickel or Cobalt containing alloys may cause sensitisation 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
Chromium		Group 3		
7440-47-3		· ·		
Nickel		Group 1	Known	X
7440-02-0		Group 2B	Reasonably Anticipated	
Cobalt	A3	Group 2A	Known	X
7440-48-4		Group 2B		

Reproductive toxicity Product not classified.

STOT - single exposure Product not classified.

STOT - repeated exposure May cause disorder and damage to the: Respiratory system.

Aspiration hazard Product not classified.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

This product as shipped is not classified for aquatic toxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Iron	-	The 96 h LC50 of 50% iron		The 48 h EC50 of iron
		oxide black in water to	for activated sludge was	oxide to Daphnia magna
		Danio rerio was greater	greater than 10,000 mg/L.	was greater than 100
		than 10,000 mg/L.		mg/L.
Manganese	The 72 h EC50 of	The 96 h LC50 of	The 3 h EC50 of	The 48 h EC50 of
	manganese to	manganese to	manganese for activated	manganese to Daphnia
	Desmodesmus	Oncorhynchus mykiss was	sludge was greater than	magna was greater than
	subspicatus was 2.8 mg of		1000 mg/L.	1.6 mg/L.
	Mn/L.	Mn/L		
Chromium	-	-	-	-
Nickel	NOEC/EC10 values range	The 96h LC50s values	The 30 min EC50 of nickel	The 48h LC50s values
		range from 0.4 mg Ni/L for		range from 0.013 mg Ni/L
	Scenedesmus	Pimephales promelas to	33 mg Ni/L.	for Ceriodaphnia dubia to
	accuminatus to 425 µg/l for			4970 mg Ni/L for Daphnia
	Pseudokirchneriella	Brachydanio rerio.		magna.
	subcapitata.			
Molybdenum	The 72 h EC50 of sodium	The 96 h LC50 of sodium	The 3 h EC50 of	The 48 h LC50 of sodium
	molybdate dihydrate to	molybdate dihydrate to	molybdenum trioxide for	molybdate dihydrate to
	Pseudokirchneriella	Pimephales promelas was	activated sludge was 820	Ceriodaphnia dubia was
	subcapitata was 362.9 mg	644.2 mg/L	mg/L.	1,015 mg/L.
	of Mo/L.			The 48 h LC50 of sodium
				molybdate dihydrate to
				Daphnia magna was
0.11	TI 701 5050 (II			greater than 1,727.8 mg/L.
Silicon	The 72 h EC50 of sodium	-	-	-
	metasilicate pentahydrate to Pseudokirchnerella			
	subcapitata was greater			
Vanadium	than 250 mg/L. The 72 h EC50 of	The 96 h LC50 of	The 3 h EC50 of sodium	The 48 h EC50 of sodium
vanadium	vanadium pentoxide to	vanadium pentoxide to	metavanadate for	vanadate to Daphnia
	Desmodesmus	Pimephales promelas was	activated sludge was	magna was 2,661 ug of
	subspicatus was 2,907 ug	1,850 ug of V/L .	greater than 100 mg/L.	V/L.
	of V/L.	1,830 ug 01 V/L .	greater than 100 mg/c.	V/L.
Cobalt	The 72 h EC50 of cobalt	The 96h LC50 of cobalt	The 3 h EC50 of cobalt	The 48 h LC50 of cobalt
Cobait	dichloride to	dichloride ranged from 1.5	dichloride for activated	dichloride ranged from
		mg Co/L for Oncorhynchus	sludge was 120 mg of	0.61 mg Co/L for
	subcapitata was 144 ug of		Co/L.	Ceriodaphnia dubia tested
	Co/L.	Danio rerio.	00/L.	in soft, DOM-free water to
]	Barno rono.		>1800mg Co/L for Tubifex
				tubifex in very hard water.
	1			tablick ill voly hard water.

12.2. Persistence and degradability

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12.3. Bioaccumulative potential

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12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

The PBT and vPvB criteria do not apply to inorganic substances.

12.6. Other adverse effects

This product as shipped is not classified for environmental endpoints. However, when subjected to sawing or grinding, particles may be generated that are classified for aquatic chronic toxicity

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused

products

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

regulations.

Contaminated packaging None anticipated.

Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN/ID no	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None

14.7 Transport in bulk according to Not applicable

Annex II of MARPOL and the IBC

Code

RID	
14.1 UN/ID no	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable

14.6 Special Provisions None

ADR

Not regulated
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special Provisions None

ICAO (air)

14.1	UN/ID no	Not regulated
14.2	Proper shipping name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing Group	Not applicable
14.5	Environmental hazard	Not applicable

14.6 Special Provisions None

IATA

14.1 UN/ID no	Not regulated
	•
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
Description	Not applicable

14.5 Environmental hazard

Not applicable

14.6 Special Provisions

None

Section 15: REGULATORY INFORMATION

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

Chemical Name	French RG number	Title
Iron	RG 44,RG 44bis,RG 94	-
7439-89-6		
Manganese	-	-
7439-96-5		
Chromium	RG 10	-
7440-47-3		
Nickel	RG 37ter	-
7440-02-0		
Molybdenum	-	-
7439-98-7		
Silicon	-	-
7440-21-3		
Vanadium	RG 66	-
7440-62-2		
Cobalt	RG 65,RG 70,RG 70bis,RG	-
7440-48-4	70ter	

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

International Inventories

Complies **TSCA** DSL/NDSL Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC KECL** Complies **PICCS** Complies **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

15.2. Chemical safety assessment

No chemical safety assessment has been performed for this product.

Section 16: OTHER INFORMATION

Issue Date 28-May-2015

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Revision Note Updated Section(s): 4, 5, 7, 9, 11, 12, 15.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Note:

The information provided in this Material 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: