

SAFETY DATA SHEET

Issue Date 08-Jul-2018 Revision Date 08-Jul-2018 Version 1

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

1.1. Product identifier

Product Code PM027

Product Name Iron Chromium Alloy Powder

Synonyms Iron Chromium Alloy Powder: Fe-12.3Cr-6.1Al-0.3Zr, Fe-12Cr-1Mo-0.3Ti-0.3Nb,

Fe-12Cr-6.1Al-0.3Zr, Fe-12Cr-6Al-0.5Y, Fe-12Cr-6Al-2Mo-0.5Y, Fe-14Cr-3W-0.4Ti-0.25Y

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

Recommended Use Iron alloy 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

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

2.2. Label elements

Emergency Overview

Appearance PowderPhysical state SolidOdour Odourless

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: 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.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms Iron Chromium Alloy Powder: Fe-12.3Cr-6.1Al-0.3Zr, Fe-12Cr-1Mo-0.3Ti-0.3Nb,

Fe-12Cr-6.1Al-0.3Zr, Fe-12Cr-6Al-0.5Y, Fe-12Cr-6Al-2Mo-0.5Y, Fe-14Cr-3W-0.4Ti-0.25Y.

Chemical Name	EC No	CAS No	Weight-%
Iron	231-096-4	7439-89-6	60 - 88
Chromium	231-157-5	7440-47-3	1 - 20
Molybdenum	231-107-2	7439-98-7	0 - 10
Aluminium	231-072-3	7429-90-5	0 - 10
Tungsten	231-143-9	7440-33-7	0 - 5
Titanium	231-142-3	7440-32-6	0 - 5
Niobium	231-113-5	7440-03-1	0 - 5
Zirconium	231-176-9	7440-67-7	0 - 1
Yttrium	231-174-8	7440-65-5	0 - 1

Section 4: FIRST AID MEASURES

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 None under normal use conditions.

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

foreign object.

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

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None anticipated.

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. 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 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 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.

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

Collect spillage to prevent release to the environment.

6.3. 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.

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

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 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 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. 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.

7.3. Specific end use(s)

Risk Management Methods (RMM)

Not required.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Iron	T				
7439-89-6	-	-	-	-	-
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
Molybdenum 7439-98-7	-	-	-	TWA: 10 mg/m ³ TWA: 3 mg/m ³	-
Aluminium 7429-90-5	-	STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³	TWA: 10 mg/m³ TWA: 5 mg/m³	TWA: 10 mg/m³ TWA: 5 mg/m³	TWA: 4 mg/m³ TWA: 1.5 mg/m³
Tungsten 7440-33-7	-	STEL: 10 mg/m ³ TWA: 5 mg/m ³	-	STEL: 10 mg/m ³ TWA: 5 mg/m ³	-
Titanium 7440-32-6	-	-	-	-	-
Niobium 7440-03-1	-	-	-	-	-
Zirconium 7440-67-7	-	TWA: 5 mg/m ³	-	STEL: 10 mg/m³ TWA: 5 mg/m³	TWA: 1 mg/m³ Ceiling / Peak: 1 mg/m³
Yttrium 7440-65-5	-	STEL: 3 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³	-
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Iron 7439-89-6	-	-	-	-	-
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
Molybdenum 7439-98-7	-	TWA: 10 mg/m ³ TWA: 3 mg/m ³	-	TWA: 0.5 mg/m ³	-
Aluminium 7429-90-5	-	TWA: 10 mg/m³ TWA: 5 mg/m³	TWA: 0.05 mg/m ³	TWA: 1.5 mg/m ³	TWA: 5 mg/m ³ TWA: 2 mg/m ³
Tungsten 7440-33-7	-	STEL: 10 mg/m ³ TWA: 5 mg/m ³	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³
Titanium 7440-32-6	-	-	-	-	-
Niobium 7440-03-1	-	-	-	-	TWA: 5 mg/m ³ TWA: 0.5 mg/m ³
Zirconium 7440-67-7	-	STEL: 10 mg/m ³ TWA: 5 mg/m ³	-	TWA: 1 mg/m ³	TWA: 5 mg/m ³
Yttrium 7440-65-5	-	TWA: 1 mg/m³	-	TWA: 1 mg/m ³	TWA: 1 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Iron 7439-89-6	-	-	-	-	-
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
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 ³
7439-98-7 Aluminium 7429-90-5	TWA: 10 mg/m ³ STEL 20 mg/m ³ TWA: 10 mg/m ³	TWA: 3 mg/m ³	TWA: 4 mg/m ³ TWA: 2.5 mg/m ³ TWA: 1.2 mg/m ³	TWA: 5 mg/m³ STEL: 10 mg/m³	TWA: 1 mg/m³ TWA: mg/m³
7439-98-7 Aluminium 7429-90-5 Tungsten 7440-33-7	TWA: 10 mg/m ³ STEL 20 mg/m ³		TWA: 4 mg/m ³ TWA: 2.5 mg/m ³ TWA: 1.2 mg/m ³ TWA: 5 mg/m ³		TWA: 1 mg/m³ TWA:
7439-98-7 Aluminium 7429-90-5 Tungsten 7440-33-7 Titanium 7440-32-6	TWA: 10 mg/m³ STEL 20 mg/m³ TWA: 10 mg/m³ STEL 10 mg/m³ STEL 10 mg/m³ TWA: 5 mg/m³	TWA: 3 mg/m ³	TWA: 4 mg/m ³ TWA: 2.5 mg/m ³ TWA: 1.2 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 1 mg/m³ TWA: mg/m³ TWA: 5 mg/m³
7439-98-7 Aluminium 7429-90-5 Tungsten 7440-33-7 Titanium	TWA: 10 mg/m³ STEL 20 mg/m³ TWA: 10 mg/m³ STEL 10 mg/m³ TWA: 5 mg/m³ - STEL 10 mg/m³ STEL 10 mg/m³ STEL 1 mg/m³ TWA: 5 mg/m³ TWA: 5 mg/m³	TWA: 3 mg/m³ TWA: 5 mg/m³	TWA: 4 mg/m ³ TWA: 2.5 mg/m ³ TWA: 1.2 mg/m ³ TWA: 5 mg/m ³ STEL: 30 mg/m ³	STEL: 10 mg/m³ TWA: 5 mg/m³ STEL: 10 mg/m³ -	TWA: 1 mg/m³ TWA: mg/m³ TWA: 5 mg/m³
7439-98-7 Aluminium 7429-90-5 Tungsten 7440-33-7 Titanium 7440-32-6 Niobium	TWA: 10 mg/m³ STEL 20 mg/m³ TWA: 10 mg/m³ STEL 10 mg/m³ TWA: 5 mg/m³ - STEL 10 mg/m³ STEL 10 mg/m³ STEL 1 mg/m³ TWA: 5 mg/m³	TWA: 3 mg/m³ TWA: 5 mg/m³	TWA: 4 mg/m ³ TWA: 2.5 mg/m ³ TWA: 1.2 mg/m ³ TWA: 5 mg/m ³ STEL: 30 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 1 mg/m³ TWA: mg/m³ TWA: 5 mg/m³

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 Respiratory protection

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

Section 6: ACCIDENTAL RELEASE MEASURES. **Environmental exposure controls**

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Solid Physical state Powder **Appearance**

Colour metallic grey Silver

Odourless Odour **Odour threshold** Not applicable

Property Values Remarks • Method

Hq

Melting point/freezing point

1320-1400 °C / 2400-2550 °F Boiling point / boiling range

Flash point

Evaporation rate

Flammability (solid, gas)

Not applicable Product not flammable in the form as distributed.

Not applicable

Not applicable

Not applicable

Not applicable Not applicable

Not applicable Not applicable

Not applicable

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 Vapour density **Specific Gravity**

Water solubility Solubility(ies)

Partition coefficient Autoignition temperature **Decomposition temperature** Kinematic viscosity Dynamic viscosity

Explosive properties Oxidising properties 8.0 - 8.5Insoluble

Not applicable 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.

10.5. 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.

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:. 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.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

InhalationProduct not classified.Eye contactProduct not classified.Skin ContactProduct not classified.IngestionProduct not classified.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron	98,600 mg/kg bw	-	> 0.25 mg/L
Chromium	> 3400 mg/kg bw	-	> 5.41 mg/L
Molybdenum	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.10 mg/L
Aluminium	15,900 mg/kg bw	-	> 1 mg/L
Tungsten	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.4 mg/L
Titanium	> 5000 mg/kg bw	-	-
Niobium	> 10,000 mg/kg bw	> 2000 mg/kg bw	-
Zirconium	> 5000 mg/kg bw	-	>4.3 mg/L
Yttrium	> 5000 mg/kg bw	-	> 5.09 mg/L

Information on toxicological effects

Symptoms None known.

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 Product not classified.

Germ cell mutagenicity Product not classified.

Carcinogenicity Product not classified.

Chemical Name	ACGIH	IARC	NTP	OSHA
Chromium		Group 3		
7440-47-3		-		

Reproductive toxicity Product not classified.

STOT - single exposure Product not classified.

STOT - repeated exposure Product not classified.

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.
Chromium	-	-	-	-
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
				greater than 1,727.8 mg/L.
Aluminium	The 96-h EC50 values for	The 96 h LC50 of	-	The 48-hr LC50 for
	reduction of biomass of	aluminum to		Ceriodaphnia dubia
	Pseudokirchneriella	Oncorhynchus mykiss was		exposed to Aluminium
	subcapitata in	7.4 mg of Al/L at pH 6.5		chloride increased from
	AAP-Medium at pH 6, 7,	and 14.6 mg of Al/L at pH		0.72 to greater than 99.6
	and 8 were estimated as	7.5		mg/L with water hardness
	20.1, 5.4, and 150.6 μg/L,			increasing from 25 to 200
	respectively, for dissolved			mg/L.
	Al.			
Tungsten	The 72 h EC50 of sodium	The 96 h LC50 of sodium	The 30 min EC50 of	The 48 h EC50 of sodium
	tungstate to	tungstate to Danio rerio	sodium tungstate for	tungstate to Daphnia
	Pseudokirchnerella	was greater than 106 mg	activated sludge were	magna was greater than
	subcapitata was 31.0 mg	of W/L.	greater than 1000 mg/L.	96 mg of W/L.
T'.	of W/L.	TI 001 1 050 1111 1	TI 01 5050 (1)	TI 40 L E050 (III)
Titanium	The 72 h EC50 of titanium		The 3 h EC50 of titanium	The 48 h EC50 of titanium
	dioxide to	dioxide to Cyprinodon	dioxide for activated	dioxide to Daphnia Magna
	Pseudokirchnerella	variegatus was greater	sludge were greater than	was greater than 1000 mg
	subcapitata was 61 mg of		1000 mg/L.	of TiO2/L.
	TiO2/L.	The 96 h LC50 of titanium		
		dioxide to Pimephales		
		promelas was greater than		
Niobium		1,000 mg of TiO2/L .		
	The 14 d NOTC of	- The OC h I I FO of	-	- The 49 h FCEO of
Zirconium	The 14 d NOEC of	The 96 h LL50 of	-	The 48 h EC50 of

	zirconium dichloride oxide to Chlorella vulgaris was greater than 102.5 mg of Zr/L.	zirconium to Danio rerio was greater than 74.03 mg/L.		zirconium dioxide to Daphnia magna was greater than 74.03 mg of Zr/L.
Yttrium	-		The 3 h NOEC of Yttrium oxide for activated sludge was greater than 1000	The 48 h LL50 of Yttrium oxide to Daphnia magna was greater than 100
		groater than 100 mg/L.	mg/L.	mg/L.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

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

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

regulations.

Section 14: TRANSPORT INFORMATION

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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

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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

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

ICAO (air)

14.1 UN/ID noNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard ClassNot regulated14.4 Packing GroupNot applicable14.5 Environmental hazardNot applicable

14.6 Special Provisions None

IATA

14.1UN/ID noNot regulated14.2Proper shipping nameNot regulated14.3Hazard ClassNot regulated14.4Packing GroupNot regulatedDescriptionNot applicable14.5Environmental hazardNot 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 7439-89-6	RG 44,RG 44bis,RG 94	-
Chromium 7440-47-3	RG 10	-
Molybdenum 7439-98-7	-	-
Aluminium 7429-90-5	RG 32 RG 16,RG 16bis	-
Tungsten 7440-33-7	-	-
Titanium 7440-32-6	-	-
Niobium 7440-03-1	-	-
Zirconium 7440-67-7	-	•
Yttrium 7440-65-5	-	-

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

DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Complies
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

15.2. Chemical safety assessment

No chemical safety assessment has been performed for this product.

Section 16: OTHER INFORMATION

Issue Date 08-Jul-2018

Revision Date 08-Jul-2018

Revision Note Updated to comply with GHS.

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 Safe

Safety data sheets and labels available at ATImetals.com

from: