

SAFETY DATA SHEET

Revision Date 10-Sep-2018

Version 5

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

Product identifier Product Name

Iron-Base Alloys

Jethete™ M152

Other means of identification Product Code Synonyms

SM004 Non-powder forms of AL-6XN® Alloy, AM 355® Alloy, ATI 1014[™] Alloy, ATI 13-8Mo SuperTough® Alloy, ATI 13-8Mo[™] Alloy, ATI 15-5[™] Alloy, ATI 26-1[™] Alloy, ATI 300M[™] Alloy, ATI 301[™] Alloy, ATI 304[™] Alloy, ATI 316L[™] Alloy, ATI 403[™] Alloy, ATI 4340M[™] Alloy, ATI 4340[™] Alloy, ATI 450[™] Alloy, ATI 455[™] Alloy, ATI 403[™] Alloy, ATI 611[™] Alloy, ATI 802[™] Alloy, ATI 9310[™] Alloy, ATI 9-4-30[™] Alloy, ATI Aero100[™] Alloy, ATI Datalloy 2® Alloy, ATI Datalloy HP[™] Alloy, ATI HCM3[™] Alloy, ATI M250[™] Alloy, ATI REX 734[™] Alloy, ATI S240® Alloy, ATI VascoMax® C-200 Alloy, ATI VascoMax® T-200 Alloy, ATI VascoMax® T-250 Alloy, ATI X-2M[™] Alloy, ATI XM-19[™] Alloy, Ethalloy II®* Alloy (* a Registered Trademark of Ethicon, Inc.), VASCO® M-1[™] Alloy, R35, R355, R39, 18-4-1,

RBD, ATI FV448B™, FV448™, S62, FV458, 1%CrMoV, Nitralloy, F1E, A286L, 15/15PH, SiMnCuMoV, ATI 321H™, ATI CRV2™, ATI FV535™, ATI FV607™, ATI HCM5™, and ATI

Recommended use of the chemical and restrictions on useRecommended UseIron 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:

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

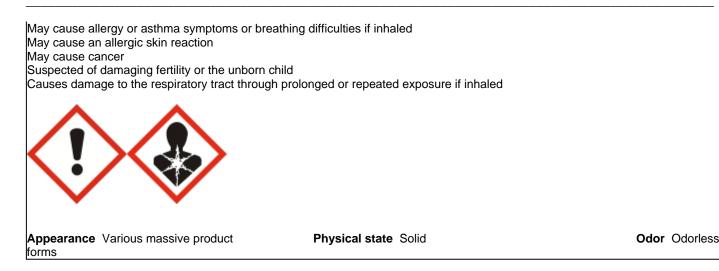
Acute toxicity - Oral	Category 4
Respiratory sensitization	Category 1B
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Emergency Overview

Danger

Hazard statements Harmful if swallowed



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 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:: Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer; Zinc, copper, magnesium, or cadmium fumes may cause metal fume fever; Soluble molybdenum compounds such as molybdenum trioxide may cause lung irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Non-powder forms of AL-6XN® Alloy, AM 355® Alloy, ATI 1014[™] Alloy, ATI 13-8Mo SuperTough® Alloy, ATI 13-8Mo[™] Alloy, ATI 15-5[™] Alloy, ATI 26-1[™] Alloy, ATI 300M[™] Alloy, ATI 301[™] Alloy, ATI 304[™] Alloy, ATI 316L[™] Alloy, ATI 403[™] Alloy, ATI 4340M[™] Alloy, ATI 4340[™] Alloy, ATI 450[™] Alloy, ATI 455[™] Alloy, ATI 53[™] Alloy, ATI 611[™] Alloy, ATI 802[™] Alloy, ATI 9310[™] Alloy, ATI 9-4-30[™] Alloy, ATI Aero100[™] Alloy, ATI Datalloy 2® Alloy, ATI Datalloy HP[™] Alloy, ATI HCM3[™] Alloy, ATI M250[™] Alloy, ATI REX 734[™] Alloy, ATI S240® Alloy, ATI VascoMax® C-200 Alloy, ATI VascoMax® C-250 Alloy, ATI VascoMax® C-300 Alloy, ATI VascoMax® C-350 Alloy, ATI VascoMax® T-200 Alloy, ATI VascoMax® T-250 Alloy, ATI X-2M[™] Alloy, ATI XM-19[™] Alloy, Ethalloy II®* Alloy (* a Registered Trademark of Ethicon, Inc.), VASCO® M-1[™] Alloy, R35, R35S, R39, 18-4-1, RBD, ATI FV448B[™], FV448[™], S62, FV458, 1%CrMoV, Nitralloy, F1E, A286L, 15/15PH, SiMnCuMoV, ATI 321H[™], ATI CRV2[™], ATI FV535[™], ATI FV607[™], ATI HCM5[™], and ATI Jethete[™] M152.

Chemical Name	CAS No.	Weight-%
Iron	7439-89-6	35 - 95
Nickel	7440-02-0	0 - 35
Chromium	7440-47-3	0 - 30
Manganese	7439-96-5	0 - 16
Cobalt	7440-48-4	0 - 15

Silicon	7440-21-3	0 - 7
Molybdenum	7439-98-7	0 - 5
Copper	7440-50-8	0 - 5
Tungsten	7440-33-7	0 - 3

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.	
Inhalation	If excessive amounts of smoke, fume, or particulate are inhaled during processing, remove to fresh air and consult a qualified health professional.	
Ingestion	Not an expected route of exposure.	
Most important symptoms and effects, both acute and delayed		
Symptoms	May cause allergic skin reaction. May cause acute gastrointestinal effects if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
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. 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 Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer; Zinc, copper, magnesium, or cadmium fumes may cause metal fume fever. 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 precautions	Use personal protective equipment as required.
For emergency responders	Use personal protective equipment as required.

Environmental precautions	
Environmental precautions	Not applicable to massive product.
Methods and material for containm	ent and cleaning up
Methods for containment	Not applicable to massive product.
Methods for cleaning up	Not applicable to massive product.
	7. HANDLING AND STORAGE
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 minimize combustible dust hazard.
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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
Iron 7439-89-6	-	-
Nickel 7440-02-0	TWA: 1.5 mg/m ³ inhalable fraction	TWA: 1 mg/m ³
Chromium 7440-47-3	TWA: 0.5 mg/m ³	TWA: 1 mg/m ³
Manganese 7439-96-5	TWA: 0.02 mg/m ³ respirable fraction TWA: 0.1 mg/m ³ inhalable fraction TWA: 0.02 mg/m ³ Mn TWA: 0.1 mg/m ³ Mn	(vacated) STEL: 3 mg/m³ fume (vacated) Ceiling: 5 mg/m³ Ceiling: 5 mg/m³ fume Ceiling: 5 mg/m³ Mn
Cobalt 7440-48-4	TWA: 0.02 mg/m ³ TWA: 0.02 mg/m ³ Co	TWA: 0.1 mg/m ³ dust and fume
Silicon 7440-21-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction
Molybdenum 7439-98-7	TWA: 10 mg/m ³ inhalable fraction TWA: 3 mg/m ³ respirable fraction	-
Copper 7440-50-8	TWA: 0.2 mg/m ³ fume TWA: 1 mg/m ³ Cu dust and mist	TWA: 0.1 mg/m ³ fume TWA: 1 mg/m ³ dust and mist
Tungsten 7440-33-7	STEL: 10 mg/m ³ STEL: 10 mg/m ³ W TWA: 5 mg/m ³ TWA: 5 mg/m ³ W	(vacated) STEL: 10 mg/m ³ (vacated) STEL: 10 mg/m ³ W

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. 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 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 Appearance Color	Solid Various massive product forms metallic, gray or silver	Odor Odor threshold	Odorless Not applicable
Property pH Melting point/freezing point Boiling point / boiling range Flash point Evaporation rate	<u>Values</u> - 1420 - 1450 °C 2590 - 2650 °F - - -	Remarks • Method	
Flammability (solid, gas) Flammability Limit in Air	-	Product not flammable ir flammable as finely divid resulting from processing	led particles or pieces
Upper flammability limit: Lower flammability limit: Vapor pressure	- -	Not applicable	
Vapor density Specific Gravity Water solubility	- 7-9 Insoluble	Not applicable	
Solubility in other solvents Partition coefficient Autoignition temperature	- - -	Not applicable Not applicable Not applicable	
Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties	- - Not applicable	Not applicable Not applicable Not applicable	
Oxidizing properties <u>Other Information</u>	Not applicable		
Softening point Molecular weight VOC Content (%) Density Bulk density	- - Not applicable - -		

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.

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.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

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 sensitization by skin contact.

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron 7439-89-6	98,600 mg/kg bw	-	> 0.25 mg/L
Nickel 7440-02-0	> 9000 mg/kg bw	-	> 10.2 mg/L
Chromium 7440-47-3	> 3400 mg/kg bw	-	> 5.41 mg/L
Manganese 7439-96-5	>2000 mg/kg bw	-	>5.14 mg/L
Cobalt 7440-48-4	550 mg/kg bw	>2000 mg/kg bw	<0.05 mg/L
Silicon 7440-21-3	> 5000 mg/kg bw	> 5000 mg/kg bw	> 2.08 mg/L
Molybdenum 7439-98-7	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.10 mg/L
Copper 7440-50-8	481 mg/kg bw	>2000 mg/kg bw	>5.11 mg/L
Tungsten 7440-33-7	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.4 mg/L

Information on toxicological effects

Symptoms

Nickel or Cobalt containing alloys 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	Nickel or Cobalt containing alloys may cause sensitization by skin contact.

Germ cell mutagenicity Carcinogenicity

Cobalt-containing alloys may cause sensitization by inhalation. Product not classified. May cause cancer by inhalation.

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

Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard

Possible risk of impaired fertility. Product not classified.

Causes disorder and damage to the: Respiratory System.

Product not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product as shipped is not classified for aquatic toxicity.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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.	The 3 h EC50 of iron oxide for activated sludge was greater than 10,000 mg/L.	The 48 h EC50 of iron oxide to Daphnia magna was greater than 100 mg/L.
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.
Chromium 7440-47-3	-	-	-	-
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.
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.
Silicon 7440-21-3	The 72 h EC50 of sodium metasilicate pentahydrate to Pseudokirchnerella subcapitata was greater than 250 mg/L.	-	-	-
Molybdenum 7439-98-7	The 72 h EC50 of sodium molybdate dihydrate to Pseudokirchneriella subcapitata was 362.9 mg of Mo/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.
Copper 7440-50-8	The 72 h EC50 values of copper chloride to Pseudokirchneriella subcapitata ranged between 30 µg/L (pH 7.02, hardness	The 96-hr LC50 for Pimephales promelas exposed to Copper sulfate ranged from 256.2 to 38.4 ug/L with water hardness	The 24 h NOEC of copper chloride for activated sludge ranged from 0.32 to 0.64 mg of Cu/L.	The 48 h LC50 values for Daphnia magna exposed to copper in natural water ranged between 33.8 µg/L (pH 6.1, hardness 12.4 mg/L

	250 mg/L CaCO3, DOC 1.95	increasing from 45 to 255.7		CaCO3, DOC 2.34 mg/L)
	mg/L) and 824 µg/L (pH	mg/L.		and 792 µg/L (pH 7.35,
	6.22, hardness 100 mg/L			hardness 139.7 mg/L
	CaCO3, DOC 15.8 mg/L).			CaCO3, DOC 22.8 mg/L).
Tungsten	The 72 h EC50 of sodium	The 96 h LC50 of sodium	The 30 min EC50 of sodium	The 48 h EC50 of sodium
7440-33-7	tungstate to	tungstate to Danio rerio was	tungstate for activated	tungstate to Daphnia magna
	Pseudokirchnerella	greater than 106 mg of W/L.	sludge were greater than	was greater than 96 mg of
	subcapitata was 31.0 mg of	_	1000 mg/L.	W/L.
	W/L.		-	

Persistence and degradability

Bioaccumulation

<u>Other adverse effects</u> 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 acute or aquatic chronic toxicity.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

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

Contaminated packaging

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

DOT

Not regulated

None anticipated.

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
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

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:

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Nickel - 7440-02-0	7440-02-0	0 - 35	0.1
Chromium - 7440-47-3	7440-47-3	0 - 30	1.0
Manganese - 7439-96-5	7439-96-5	0 - 16	1.0
Cobalt - 7440-48-4	7440-48-4	0 - 15	0.1
Copper - 7440-50-8	7440-50-8	0 - 5	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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		X	Х	
Copper 7440-50-8		Х	Х	

<u>CERCLA</u>

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	100 lb
7440-02-0	
Chromium	5000 lb
7440-47-3	
Copper	5000 lb
7440-50-8	

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	
Nickel - 7440-02-0	Carcinogen	
Cobalt - 7440-48-4	Carcinogen	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Nickel	Х	Х	Х
7440-02-0			
Chromium	Х	Х	Х
7440-47-3			
Manganese	Х	Х	Х
7439-96-5			

Cobalt 7440-48-4	Х	Х	Х
Silicon 7440-21-3	Х	Х	Х
Molybdenum 7439-98-7	Х	Х	Х
Copper 7440-50-8	Х	Х	Х
Tungsten 7440-33-7	Х	Х	Х

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 Chronic Hazard Star Lege	Health hazards 2* nd *= Chronic	Flammability 0 Health Hazard	Physical hazards 0	Personal protection X
Issue Date Revision Date Revision Note Updated Section(s): 4, 5,	on Date 10-Sep-2018			
Note: The information provide	ed in this safety data sl		est of our knowledge, infor uidance for safe handling,	

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 from:

Safety data sheets and labels available at ATImetals.com