

SAFETY DATA SHEET

Issue Date 28-May-2015

Revision Date 18-Feb-2016

Version (

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

Product identifier

Product Name

Iron-Base Alloys

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 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® T-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, R35S, R39, 18-4-1, RBD, ATI FV448B™, FV448B™, S62, FV458, 1%CrMoV, Nitralloy, F1E, A286L, 15/15PH, SiMnCuMoV, ATI 321H™, ATI CRV2™, ATI FV535™, ATI FV607™, ATI HCM5™, and ATI

Jethete™ M152

Recommended use of the chemical and restrictions on use

Recommended Use

Iron alloy product manufacture.

Uses advised against

Details of the supplier of the safety data sheet Stanford Advanced Materials

E-mail: sales@samaterials.com

Tel: (949) 407-8904

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

Emergency telephone number

Emergency Telephone

(949) 407-8904

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

|--|

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



Appearance Various massive product forms

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

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 fumes 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 455™ 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® T-200 Alloy, ATI VascoMax® T-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, 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

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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.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Not flammable in the form of this product as distributed, flammable as finely divided particles or pieces resulting from processing of this product. Smother 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 Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer; Zinc,

copper, magnesium, or cadmium fumes may cause metal fumes 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

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) respirator and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment as required.

Environmental precautions

Environmental precautionsNot applicable to massive product.

Methods and material for containment 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 handlingVery 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 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			1		1.1	11.	-		
	Nickel 7440-02-0			TWA: 1.5	TWA: 1.5 mg/m³ inhalable fraction			TWA: 1	mg/m³	
	Chromium 7440-47-3			TWA: 0.5 mg/m³ TWA: ²		TWA: 0.5 mg/m ³		TWA: 1	mg/m³	
	Mangariese 7439-96-5	::'		TWA: 0.1 mg	2 mg/m³ respira g/m³ inhalable t 0.02 mg/m³ Mr NA: 0.1 mg/m³	fraction TWA:	` (v	ated) STEL acated) Cei mg/m³ fume	ling: 5 mg/n	n³ ˈ
1::	Cobalt 7440-48-4	111		TWA: 0.02 i	mg/m³ TWA: 0.0	02 mg/m³ Co	TWA	: 0.1 mg/m ³	dust and f	fume
	Silicon 7440-21-3				-			WA: 15 mg/ : 5 mg/m³ re		
111	Molybdenum 7439-98-7	111			mg/m³≒inhalab mg/m³ respirab		11	-		11
	Copper 7440-50-8		·	TWA: 0.2 mg	g/m³ fume TWA dust and mist			TWA: 0.1 m /A: 1 mg/m³		
1,1	Tungsten 7440-33-7		::		mg/m³ STEL: 1 mg/m³ TWA: 5		(vacated)	STEL: 10 m 10 mg		ed) STEL:

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

oresent.

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 contaminat 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
Appearance Various massive product forms Odor

AppearanceVarious massive product formsOdorOdorlessColorImage: Market of the color of the c

PropertyValuesRemarks • MethodpH-Not applicable

Melting point/freezing point 1420-1450 °C 2590 to 2650 °F
Boiling point / boiling range - Not applicable
Flash point - Not applicable

Evaporation rate - Not applicable Flammability (solid, gas) - Not flammable

Ammability (solid, gas)

Not flammable in the form of this product as distributed, flammable as finely divided particles or pieces resulting from processing of this product

Flammability Limit in Air Not applicable

Upper flammability limit: Lower flammability limit: Vapor pressure - Not applicable

Vapor density - Not applicable
Specific Gravity 7-9

Water solubilityInsolubleInsolubleSolubility in other solvents-Not applicablePartition coefficient-Not applicableAutoignition temperature-Not applicableDecomposition temperature-Not applicable

Kinematic viscosity - Not applicable

Dynamic viscosity - Not applicable

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.

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 May cause sensitization by skin contact.

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

Chemical Name			Oral LD50	1	: D	ermal LD50			Inhalation LC50	
Iron 7439-89-6			98,600 mg/kg bw			-			> 0.25 mg/L	
Nickel 7440-02-0	1.,	1.;	> 9000 mg/kg bw	1.;	111	-:::	1.,	1:	> 10.2 mg/L	1.,
Chromium 7440-47-3			> 3400 mg/kg bw			-			> 5.41 mg/L	
Manganese 7439-96-5	: ::	':	>2000 mg/kg bw	111	:::	-;::	111	:::	>5.14 mg/L	111
Cobalt 7440-48-4			550 mg/kg bw		>20	000 mg/kg bv	N		<0.05 mg/L	
Silicon 7440-21-3			> 5000 mg/kg bw		> 5	000 mg/kg b	w		> 2.08 mg/L	
Molybdenum 7439-98-7		: '	> 2000 mg/kg bw		> 2	000 mg/kg b	w	.:	> 5.10 mg/L	
Copper 7440-50-8			481 mg/kg bw		>20	000 mg/kg by	N		>5.11 mg/L	1
Tungsten 7440-33-7			> 2000 mg/kg bw		> 2	000 mg/kg b	w		> 5.4 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
Nickel		Group 1	Known	X
7440-02-0		Group 2B	Reasonably Anticipated	
Chromium		Group 3		
7440-47-3	 			
Cobalt	A3	Group 2A	Known	X
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 contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO

Chemical Name	Algae/aquatic plants	;, Fish ;,	Toxicity to microorganisms	Crustacea
Iron 7439-89-6	- 14: ed ::	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	The 96h LC50s values range from 0.4 mg Ni/L for Pimephales promelas to 320 mg Ni/L for Brachydanio	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	Pseudokirchneriella subcapitata.	i rerio.	-	-
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	The 96h LC50 of cobalt dichloride ranged from 1.5 mg Co/L for Oncorhynchus mykiss to 85 mg Co/L for	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,
::	Co/L.	Danio rerio.		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.	- in in	- 	- in in
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.
Copper 7440-50-8	The 72 h EC50 values of copper chloride to Pseudokirchneriella subcapitata ranged between 30 µg/L (pH 7.02, hardness 250 mg/L CaCO3, DOC 1.95 mg/L) and 824 µg/L (pH		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 CaCO3, DOC 2.34 mg/L) and 792 µg/L (pH 7.35,
111	6.22, hardness 100 mg/L	mg/L.		hardness 139.7 mg/L

		CaCO3, DOC 15.8 mg/L).	11.		CaCO3, DOC 22.8 mg/L).
Г	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

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 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

None anticipated.

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

15. REGULATORY INFORMATION **International Inventories** Complies TSCA Complies **DSL/NDSL EINECS/ELINCS** Complies Complies **ENCS 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		111 111
Chromium 7440-47-3		Х	Х	
Copper 7440-50-8		X	X	

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									
	Copper 7440-50-8					5000 lb					

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name		California Proposition 65						
Nickel - 7440-02-0		1.1	Carcinogen	1.1	111			
Cobalt - 7440-48-4			Carcinogen					

U.S. State Right-to-Know Regulations

C	hemical Name			New Jersey	1	M	assachüsett	s '		Pennsÿlvania	a ',,
	Nickel 7440-02-0			Х			X			Х	*
1	Chromium 7440-47-3	:.:	1	X		111	X	1.,	111	X	
	Manganese 7439-96-5			Х			Х			Х	
:::	Cobalt 7440-48-4			X	1		X	111	:::	X	1
	Silicon			Х			X			Х	

7440-21-3	17.		1.1	'		1.1	5.		1.1	9,
Molybdenum 7439-98-7	,		X			X	,		X	,
Copper 7440-50-8			Х			Х			Х	
Tungsten 7440-33-7	111	12.1	X ;//	111	12.1	X ; , ,	′;;	17	X,,,	1

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 -

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

Chronic Hazard Star Legend *= Chronic Health Hazard

Issue Date 28-May-2015 Revision Date 28-May-2016

Revision Note

Updated Section(s): 12

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 samaterials.com

from: