NEW MILLENNIUM

SAFETY DATA SHEET

1. Identification

Product identifier Steel Castellated Beams (Painted, Unpainted and/or Galvanized)

Other means of identification Not available.

Synonyms Steel

Recommended use Structural steel **Recommended restrictions** None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer/Supplier New Millennium Building Systems

Address 21739 Road E-16

Continental, OH 45831

Telephone 260-868-6000
Contact Person Safety Department
Emergency (800)-424-9300

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.
Hazard statement None.

Precautionary statement

Prevention Avoid creating dust.

Response Wash skin with soap and water.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

Supplemental information

Hazard statement In its manufactured and shipped state, this product is considered non-hazardous. Processing may

generate hazardous fumes and dusts. Welding, cutting and metalizing can generate ozone.

Ozone can cause irritation of eyes, nose and respiratory tract.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Iron	7439-89-6	>90
Manganese	7439-96-5	0.5-1.5
Silicon	7440-21-3	0.1-0.8
Carbon	7440-44-0	0.01-0.85
Chromium	7440-47-3	0-0.7
Copper	7440-50-8	0-0.6
Nickel	7440-02-0	0-0.5
Molybdenum	7439-98-7	0-0.15
Phosphorus	7723-14-0	0-0.15
Vanadium	7440-62-2	0-0.1

Steel Castellated Beams (Painted, Unpainted and/or Galvanized)
903696 Version #: 01 Revision date: - Issue date: 23-August-2013

Niobium	7440-03-1	0-0.05
Sulfur	7704-34-9	0-0.05
Titanium dioxide (TiO2)	13463-67-7	<0.05
Antimony	7440-36-0	<0.02
Lead	7439-92-1	<0.015
Limestone	1317-65-3	<0.015
Aluminum	7429-90-5	<0.01
Tin	7440-31-5	<0.01
Zinc	7440-66-6	<0.01
Iron oxide**	1309-37-1	0
Vanadium pentoxide**	1314-62-1	0

The product is an alloy. May liberate hazardous oxides such as iron oxides and vanadium pentoxide at temperatures above the melting point. The surface is coated with molten Galvalume® consisting of Aluminum approximately 55%, Zinc approximately 43.5% with the remainder composed primarily of silicon.

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Iron oxide and vanadium pentoxide are formed at temperatures above the melting point.

4. First-aid measures

Inhalation In case of inhalation of fumes from heated product: Move into fresh air and keep at rest. Get

medical attention if symptoms persist. If breathing is difficult, give oxygen. If breathing stops,

provide artificial respiration.

Skin contact Wash skin with soap and water. In case of burns with hot metal, rinse with plenty of cold water. If

burns are severe, consult a physician. If skin irritation or an allergic skin reaction develops, get

medical attention.

Eye contactAny material that contacts the eye should be washed out immediately with water. If easy to do,

remove contact lenses. Get medical attention promptly if symptoms persist or occur after washing.

Ingestion Solid steel: Not applicable. Dust: Get medical attention if any discomfort continues.

Most important

symptoms/effects, acute and

delayed

Exposed individuals may experience eye tearing, redness, and discomfort. High concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of metal fume fever. Typical symptoms last 12 to 48 hours and are characterized by metallic taste in the mouth, dryness, and irritation of the throat, followed by weakness, muscle pain, fever, and chills.

5. Fire-fighting measures

Suitable extinguishing media No unusual fire or explosion hazards noted. Use fire-extinguishing media appropriate for

surrounding materials.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

By heating and fire, toxic vapors/gases may be formed.

Special protective equipment and precautions for firefighters

Fire-fighting

equipment/instructions

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Cold solid metal: No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product. Hot metal: Avoid contact with hot material. Wear protective clothing as described in Section 8 of this safety data sheet.

Methods and materials for containment and cleaning up

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Collect for recycling.

Environmental precautions No specific precautions.

7. Handling and storage

Precautions for safe handling

Avoid contact with sharp edges and hot surfaces. Use appropriate gloves and tools to ensure safe handling. Use work methods which minimize dust/fume production. Do not breathe fumes and dusts. Follow the recommendations in ANSI Z49.1, Safety in welding and cutting (ANSI=American National Standard Institute).

Value

Conditions for safe storage, including any incompatibilities

Store in a dry place. Store away from: Strong oxidizing agents. Acids.

8. Exposure controls/personal protection

Occupational exposure limits

Components

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Type

Lead (CAS 7439-92-1) US. OSHA Table Z-1 Limits for Air	TWA Contaminants (29 CFR 1910.1	0.05 mg/m3 1000)	
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	PEL	5 mg/m3	Respirable dust.
		15 mg/m3	Total dust.
Antimony (CAS 7440-36-0)	PEL	0.5 mg/m3	
Carbon (CAS 7440-44-0)	PEL	5 mg/m3	Respirable fraction
,		15 mg/m3	Total dust.
Chromium (CAS 7440-47-3)	PEL	1 mg/m3	
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
,		0.1 mg/m3	Fume.
Iron oxide** (CAS 1309-37-1)	PEL	10 mg/m3	Fume.
Limestone (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction
Limestone (Grie 1017 00 0)		15 mg/m3	Total dust.
Manganese (CAS	Ceiling	5 mg/m3	Fume.
7439-96-5)		og	
Molybdenum (CAS 7439-98-7)	PEL	15 mg/m3	Total dust.
Nickel (CAS 7440-02-0)	PEL	1 mg/m3	
Phosphorus (CAS 7723-14-0)	PEL	0.1 mg/m3	
Silicon (CAS 7440-21-3)	PEL	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
Tin (CAS 7440-31-5)	PEL	2 mg/m3	
Titanium dioxide (TiO2) (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
Vanadium pentoxide** (CAS 1314-62-1)	Ceiling	0.5 mg/m3	Respirable dust.
,	4000	0.1 mg/m3	Fume.
US. OSHA Table Z-3 (29 CFR 1910	.1000)		
Components	Туре	Value	
Carbon (CAS 7440-44-0)	TWA	15 millions of particle	

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Antimony (CAS 7440-36-0)	TWA	0.5 mg/m3	
Carbon (CAS 7440-44-0)	TWA	2 mg/m3	Respirable fraction.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Iron oxide** (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3	
Manganese (CAS 7439-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
,		0.02 mg/m3	Respirable fraction.
Molybdenum (CAS 7439-98-7)	TWA	3 mg/m3	Respirable fraction.

Steel Castellated Beams (Painted, Unpainted and/or Galvanized)

SDS US

903696 Version #: 01 Revision date: - Issue date: 23-August-2013

Components	Туре	Value	Form
		10 mg/m3	Inhalable fraction.
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.
Tin (CAS 7440-31-5)	TWA	2 mg/m3	
Titanium dioxide (TiO2) (CAS 13463-67-7)	TWA	10 mg/m3	
Vanadium pentoxide** (CAS 1314-62-1)	TWA	0.05 mg/m3	Inhalable fraction.

US NIOSH Pocket Guide to Chemical Hazards: Ceiling Limit Value and Time Period (if specified)

Components	Туре	Value	Form	
Vanadium pentoxide** (CAS 1314-62-1)	Ceiling	0.05 mg/m3	Fume.	
(0.05 mg/m3	Dust.	

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3	Welding fume or pyrophoric powder.
		5 mg/m3	Respirable.
		10 mg/m3	Total
Antimony (CAS 7440-36-0)	TWA	0.5 mg/m3	
Carbon (CAS 7440-44-0)	TWA	2.5 mg/m3	Respirable.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
Iron oxide** (CAS 1309-37-1)	TWA	5 mg/m3	Dust and fume.
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3	
Limestone (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Manganese (CAS 7439-96-5)	TWA	1 mg/m3	Fume.
Nickel (CAS 7440-02-0)	TWA	0.015 mg/m3	
Phosphorus (CAS 7723-14-0)	TWA	0.1 mg/m3	
Silicon (CAS 7440-21-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Tin (CAS 7440-31-5)	TWA	2 mg/m3	
Vanadium (CAS 7440-62-2)	TWA	1 mg/m3	

US NIOSH Pocket Guide to Chemical Hazards: Short Term Exposure Limit (STEL)

Components	Туре	Value	Form
Manganese (CAS 7439-96-5)	STEL	3 mg/m3	Fume.
Vanadium (CAS 7440-62-2)	STEL	3 mg/m3	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Lead (CAS 7439-92-1)	300 μg/l	Lead	Blood	*	

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

Adequate ventilation should be provided so that exposure limits are not exceeded. Use local exhaust when welding, burning, sawing, brazing, grinding or machining to prevent excessive dust or fume exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection Risk of contact: Wear approved safety goggles. Use of safety glasses or goggles is required for

welding, burning, sawing, brazing, grinding or machining operations.

Skin protection

Hand protection Wear protective gloves.

Other Risk of contact: Wear suitable protective clothing.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits.

Thermal hazards When material is heated, wear gloves to protect against thermal burns. Thermally protective apron

and long sleeves are recommended when volume of hot material is significant.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance Massive, solid metal with circular or octagon shaped holes

Physical stateSolid.FormSolid.

Color Metallic gray.

Odor None.

Odor threshold Not applicable.

pH Not applicable.

Melting point/freezing point 2750 °F (1510 °C) / Not applicable.

Initial boiling point and boiling

range

Not applicable.

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable.

Flammability limit - upper

(%)

Not applicable.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressureNot applicable.Vapor densityNot applicable.Relative densityNot available.Solubility(ies)Insoluble.

Partition coefficient (n-octanol/water)

Not applicable.

Auto-ignition temperature

Decomposition temperature

Not applicable.

Not applicable.

Other information

Viscosity

Solubility (other) Not available.

10. Stability and reactivity

Reactivity Stable at normal conditions.

Chemical stability This product is stable under expected conditions of use.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoidContact with incompatible materials. Contact with acids will release flammable hydrogen gas.

Incompatible materials Strong acids. Oxidizing agents.

Hazardous decomposition At elevated temperatures: Metal oxides.

products Strong Acid Contact: Hydrogen.

11. Toxicological information

Information on likely routes of exposure

Ingestion Solid steel: Not relevant, due to the form of the product. However, ingestion of dusts generated

during working operations may cause nausea and vomiting.

Inhalation No inhalation hazard under normal conditions. Welding, burning, sawing, brazing, grinding or

machining operations may generate fumes and dusts of metal oxides.

Steel Castellated Beams (Painted, Unpainted and/or Galvanized)
903696 Version #: 01 Revision date: - Issue date: 23-August-2013

Under normal conditions of intended use, this material does not pose a risk to health. Dust may Skin contact

irritate skin. Contact with hot material can cause thermal burns which may result in permanent

damage.

Under normal conditions of intended use, this material does not pose a risk to health. Contact with Eve contact hot material can cause thermal burns which may result in permanent damage. Grinding and

sanding this product may generate dust. Dust may irritate the eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Exposed individuals may experience eye tearing, redness, and discomfort. High concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of metal fume fever. Typical symptoms last 12 to 48 hours and are characterized by metallic taste in the mouth, dryness, and irritation of the throat, followed by weakness, muscle pain, fever, and chills.

Information on toxicological effects

Acute toxicity Processing may generate hazardous fumes and dusts. Welding, cutting and metalizing can

generate ozone. Ozone can cause irritation of eyes, nose and respiratory tract.

Components	Species	Test Results
Carbon (CAS 7440-44-0)		
Acute		
Oral		
LD50	Rat	> 10000 mg/kg
Iron (CAS 7439-89-6)		
Acute		
Inhalation		
LC50	Rat	250 mg/m3, 6 Hours, (Carbonyl iron)
Oral		
LD50	Rat	7500 mg/kg
Silicon (CAS 7440-21-3)		
Acute		
Oral		
LD50	Rat	3160 mg/kg
Skin corrosion/irritation	Dust may irritate skin.	
Serious eye damage/eye	Dust may irritate the eyes.	

irritation

Respiratory sensitization Not relevant, due to the form of the product. Contains nickel: May cause allergy or asthma symptoms or breathing difficulties if inhaled. This ingredient is bound within the product and

release is not expected under normal condition.

Skin sensitization Contains nickel: May cause an allergic skin reaction.

Germ cell mutagenicity Not relevant, due to the form of the product. May liberate hazardous vanadium pentoxide at

temperatures above the melting point. Vanadium pentoxide is classified as suspected of causing

genetic defects.

This ingredient is bound within the product and release is not expected under normal condition.

Not relevant, due to the form of the product. May liberate hazardous vanadium pentoxide at Carcinogenicity

temperatures above the melting point. Vanadium pentoxide is classified as possibly carcinogenic

to humans (Group 2B) by IARC

This ingredient is bound within the product and release is not expected under normal condition.

IARC Monographs. Overall Evaluation of Carcinogenicity

Chromium (CAS 7440-47-3) 3 Not classifiable as to carcinogenicity to humans. Iron oxide** (CAS 1309-37-1) 3 Not classifiable as to carcinogenicity to humans. Lead (CAS 7439-92-1) 2B Possibly carcinogenic to humans. Nickel (CAS 7440-02-0) 2B Possibly carcinogenic to humans. Titanium dioxide (TiO2) (CAS 13463-67-7) 2B Possibly carcinogenic to humans. Vanadium pentoxide** (CAS 1314-62-1) 2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Lead (CAS 7439-92-1) Reasonably Anticipated to be a Human Carcinogen. Nickel (CAS 7440-02-0) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Not relevant, due to the form of the product. May liberate hazardous vanadium pentoxide at temperatures above the melting point. Vanadium pentoxide is classified as suspected of damaging fertility or the unborn child.

This ingredient is bound within the product and release is not expected under normal condition.

Specific target organ toxicity single exposure

Reproductive toxicity

No data available.

Steel Castellated Beams (Painted, Unpainted and/or Galvanized) 903696 Version #: 01 Revision date: - Issue date: 23-August-2013 Specific target organ toxicity - repeated exposure

Not relevant, due to the form of the product. Contains Maganese: Causes damage to organs (lung) through prolonged or repeated exposure by inhalation. This ingredient is bound within the

product and release is not expected under normal condition.

Aspiration hazard

Due to the physical form of the product it is not an aspiration hazard.

Chronic effects

Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Exposure to manganese fume/dust can affect the central nervous system (apathy,

drowsiness, weakness and other chronic symptoms such as postural tremors).

The ingredients of the alloy are bound within the product and release is not expected under normal

conditions.

12. Ecological information

Ecotoxicity The environmental hazard of the product is considered to be limited.

Components		Species	Test Results
Antimony (CAS 7440-36	i-0)		
Aquatic			
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	6.2 - 8.3 mg/l, 96 hours
Iron (CAS 7439-89-6)			
Aquatic			
Fish	LC50	Channel catfish (Ictalurus punctatus)	> 500 mg/l, 96 hours
Nickel (CAS 7440-02-0)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.916 mg/l, 96 hours
Vanadium pentoxide** (0	CAS 1314-62-1)		
Aquatic			
Fish	LC50	Tigerfish, crescent perch (Therapon jarbua)	0.62 mg/l, 96 hours
Zinc (CAS 7440-66-6)			
Aquatic			
Fish	LC50	Banded killifish (Fundulus diaphanus)	0.84 mg/l, 96 hours

Persistence and degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Not relevant, due to the form of the product.

Other adverse effects None known.

13. Disposal considerations

Disposal instructions

Mobility in soil

Dispose waste and residues in accordance with applicable federal, state, and local regulations.

Hazardous waste code

Not regulated.

Waste from residues / unused

products

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Recover and recycle, if practical.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15. Regulatory information

US federal regulations

Under some use conditions, this material may be considered to be hazardous in accordance with OSHA 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Lead (CAS 7439-92-1) Reproductive toxicity Central nervous system

Kidney Blood

Acute toxicity

CERCLA Hazardous Substance List (40 CFR 302.4)

Antimony (CAS 7440-36-0) LISTED Chromium (CAS 7440-47-3) LISTED Copper (CAS 7440-50-8) LISTED Lead (CAS 7439-92-1) LISTED Manganese (CAS 7439-96-5) LISTED Nickel (CAS 7440-02-0) LISTED Phosphorus (CAS 7723-14-0) LISTED Vanadium pentoxide** (CAS 1314-62-1) LISTED Zinc (CAS 7440-66-6) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

No

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Manganese	7439-96-5	0.5-1.5	
Chromium	7440-47-3	0-0.7	
Copper	7440-50-8	0-0.6	
Nickel	7440-02-0	0-0.5	
Lead	7439-92-1	<0.015	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Antimony (CAS 7440-36-0)

Chromium (CAS 7440-47-3)

Lead (CAS 7439-92-1)

Manganese (CAS 7439-96-5)

Nickel (CAS 7440-02-0)

Phosphorus (CAS 7723-14-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

Not regulated.

Food and Drug

Administration (FDA)

US state regulations WARNING: This product contains chemical(s) known to the State of California to cause cancer.

US. Massachusetts RTK - Substance List

Aluminum (CAS 7429-90-5)

Antimony (CAS 7440-36-0)

Chromium (CAS 7440-47-3)

Copper (CAS 7440-50-8)

Iron oxide** (CAS 1309-37-1) Lead (CAS 7439-92-1)

Limestone (CAS 1317-65-3)

Manganese (CAS 7439-96-5)

Molybdenum (CAS 7439-98-7)

Nickel (CAS 7440-02-0)

Phosphorus (CAS 7723-14-0)

Silicon (CAS 7440-21-3)

Sulfur (CAS 7704-34-9)

Tin (CAS 7440-31-5)

Titanium dioxide (TiO2) (CAS 13463-67-7)

Vanadium (CAS 7440-62-2)

Vanadium pentoxide** (CAS 1314-62-1)

Zinc (CAS 7440-66-6)

US. New Jersey Worker and Community Right-to-Know Act

Aluminum (CAS 7429-90-5)	500 lbs
Antimony (CAS 7440-36-0)	500 lbs
Chromium (CAS 7440-47-3)	500 lbs
Copper (CAS 7440-50-8)	500 lbs
Lead (CAS 7439-92-1)	500 lbs
Manganese (CAS 7439-96-5)	500 lbs
Nickel (CAS 7440-02-0)	500 lbs
Phosphorus (CAS 7723-14-0)	100 lbs
Vanadium (CAS 7440-62-2)	500 lbs
Vanadium pentoxide** (CAS 1314-62-1)	100 lbs
Zinc (CAS 7440-66-6)	500 lbs

US. Pennsylvania RTK - Hazardous Substances

Aluminum (CAS 7429-90-5) Antimony (CAS 7440-36-0) Chromium (CAS 7440-47-3) Copper (CAS 7440-50-8) Iron oxide** (CAS 1309-37-1) Lead (CAS 7439-92-1) Limestone (CAS 1317-65-3) Manganese (CAS 7439-96-5) Molybdenum (CAS 7439-98-7) Nickel (CAS 7440-02-0) Phosphorus (CAS 7723-14-0) Silicon (CAS 7440-21-3)

Titanium dioxide (TiO2) (CAS 13463-67-7)

Vanadium (CAS 7440-62-2)

Vanadium pentoxide** (CAS 1314-62-1)

Zinc (CAS 7440-66-6)

Sulfur (CAS 7704-34-9) Tin (CAS 7440-31-5)

US. Rhode Island RTK

Aluminum (CAS 7429-90-5)

Antimony (CAS 7440-36-0)

Chromium (CAS 7440-47-3)

Copper (CAS 7440-50-8) Lead (CAS 7439-92-1)

Leau (CAS 7439-92-1)

Manganese (CAS 7439-96-5)

Nickel (CAS 7440-02-0)

Phosphorus (CAS 7723-14-0)

Vanadium (CAS 7440-62-2)

Vanadium pentoxide** (CAS 1314-62-1)

Zinc (CAS 7440-66-6)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Lead (CAS 7439-92-1)

Nickel (CAS 7440-02-0)

Titanium dioxide (TiO2) (CAS 13463-67-7)

Vanadium pentoxide** (CAS 1314-62-1)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region Inventory name On inventory (yes/no)*

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

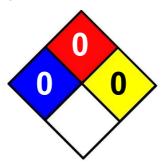
country(s).

16. Other information, including date of preparation or last revision

Issue date 23-August-2013

Revision date - Version # 01

NFPA Ratings



Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. MSDS's for specific coatings are available upon request.

Yes