# Americhem Engineered Compounds Safety Data Sheet Ecomass Compounds 0700ZC Series

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1(a)	Product Identifier used on label		
	Ecomass Compounds:	0700ZC Series	
	Form:	Plastic Compound (Acrylonitrile-Butadiene-Styrene) & Metallic Powder Mixture	
		(Pellets)	
1(b)	Other means of identification		
	ABS		
1(c)	Recommended use of the chemical and restrictions on use		
	1. Uses: Thermoplastic Polymer for Injection Molding and Extrusion		
	2. Restrictions on Uses: None		
1(d)	Name, address, & telephone number of the chemical manufacturer, importer, or supplier		
	Americhem Engineered Compounds		
	20 Progress Drive		
	Morrisville, PA 19067 USA		
	215-736-1126		
1(e)	Emergency phone number		
	215-736-1126		

SECTIO	SECTION 2: Hazard(s) Identification		
2(a)	Hazard Classification		
	(GHS-US):	Not classified as a hazardous substance or mixture.	
2(b)	Label Elements		
	Signal Word:	None	
	Pictogram:	None	
	Hazard Statements:	None	
	Supplemental Hazard Statement:	Processing may release vapors and/or fumes which cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects. Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.	

# 2(c) Hazards not otherwise classified

This material has not been evaluated as a whole. All ingredients are bound in a polymer matrix and potential for hazardous exposure as shipped is minimal. However, some fumes may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respirator program, etc.) to protect his employees from exposure which may cause eye, skin, and respiratory tract irritation. Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness (severity of effects depends on extent of exposure). (See Section 8 - Exposure Controls / Personal Protection) The following ingredients are considered hazardous per OSHA 1910.1200:

- 1. Metallic Powder
- 2. Nuisance Dust

# 2(d) Ingredients with unknown toxicity

None

## SECTION 3: Composition / Information on Ingredients

Products as manufactured are classified as non-hazardous and chemical disclosure is not required by regulation(s).

While not required, polymers and metal powders are described below with their CAS Number(s).

If a chemical is not specifically identified, it is considered proprietary.

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Each stainless steel powder particle is a homogenous alloy of the components - iron, chromium, and nickel. Each stainless steel powder particle is bound in a polymer matrix mixture and potential for hazardous exposure as shipped is minimal.

Name	Product I dentifier	%	Classification (GHS-US)
(ABS) Acrylonitrile-Butadiene-Styrene	(CAS No) 9003-56-9	< 100	Not classified
Stainless Steel	(CAS No) 12597-68-1	< 100	Not classified
Iron	(CAS No) 7439-89-6	< 100	Not classified
Chromium	(CAS No) 7440-47-3	10 to 30	Not classified
Nickel	(CAS No) 7440-02-0	10 to 30	Carc. 2, Skin Sens. 1

SECTIO	N 4: First Aid Measures		
4(a)	Description of First Aid Measures		
	After Inhalation:	No known effects during normal usage. If inhalation of processing vapors from overheating or combustion, supply fresh air. In cases of severe exposure, nausea and headache can also occur. Consult physician.	
	After Skin Contact:	No known effects. Wash contacted skin. If contact with molten product, immediately flush with cool water. DO NOT pull solidified product off skin. Seek medical treatment.	
	After Eye Contact:	No known effects. Rinse eyes with water. If contact with molten product, immediately flush with cool water. Seek medical treatment.	
	After Ingestion:	No known effects. DO NOT induce vomiting. Seek medical treatment.	
4(b)	Most important symptoms and effects, both acute and delayed		
	Symptoms/Injuries:	No known effects. Long term skin contact could cause skin dryness.	
4(c)	Indication of any immediate medical attention and special treatment needed		
	Treat symptoms as above. No spe	cific antidote. Consult physician and/or seek medical treatment.	

SECTION 5: Fire Fighting Measures			
5(a)	Suitable Extinguishing Media		
	Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ), or "Alcohol" foam. For large fires use water spray for its cooling capacity		
	to reduce chances of reignition, and call for fire-fighting assistance.		
Unsuitable Extinguishing Media			
	Do not use a solid water stream, as it may scatter and spread fire.		
5(b) Specific hazards arising from the substance or mixture		ubstance or mixture	
	Fire hazard:	Flash point : > 660 °F (> 349 °C). Not flammable under ordinary use conditions but will burn and produce dense black smoke. The following hazardous products of combustion can occur: hydrogen cyanide (hydrocyanic acid) (traces), hydrocarbon fragments, and trace amounts of oxides of carbon and nitrogen.	
	Explosion hazard:	Static charge buildup can be a potential fire hazard when used in the presence of volatile, flammable vapors or in high airborne dust concentrations.	
	Reactivity:	Non-reactive.	

Use standard protective clothing for fire fighters. Self contained breathing apparatus should be worn to prevent inhalation of smoke and decomposition products in the event the material should burn. Decontaminate fire fighting equipment after use.

SECTIO	SECTION 6: Accidental Release Measures		
6(a)	Personal precautions, protective equipment and emergency procedures		
	General measures:	If spilled, may cause a fall or slipping hazard. Avoid dust generation. Keep away from ignition sources. Ensure proper ventilation.	
	Environmental:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Prevent entry to sewers and public waters.	
6(b)	Methods and material for containment and cleaning up		
	Containment:	Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Shovel, scoop, sweep up or use industrial vacuum cleaner and return to original container. Products are non-hazardous waste. Proper disposal should be evaluated based on local, state, and federal regulations/legislation or directives. Users must determine if a report is required to EPA for any amounts of this material disposed of or otherwise released into the environment.	
	References:	Refer to Sections 7, 8, and 13.	

#### SECTION 7: Handling and Storage

# 7(a) Precautions for Safe Handling

Prevent generation of dust and avoid breathing dust. If necessary, wear a dust mask. Avoid breathing processing fumes or vapors and use local exhaust above processing areas. Wash hands after use. Avoid eating, drinking, and smoking in work areas. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing. Take precautionary measures against static discharge. Earth/Ground processing equipment. Product may accumulate static charge during transport, handling, and processing. Considering the risks of electrostatic discharges, handling the products in potentially flammable atmospheres should be evaluated. Suitable precautions should be taken at all times, in particular when emptying bags or other packaging. Reducing the velocity of transport will reduce charging. Static charge buildup can be a potential fire hazard when used in the presence of volatile or flammable mixtures. Keep away from ignition sources. If product is processed into smaller particles, explosive hazardous conditions must be evaluated. The temperatures listed are indicated only for safety reasons (risk of fire and product degradation) and are not recommended for processing. Degradation of the polymer may start at lower temperatures depending on the specific processing conditions.

# 7(b) Conditions for safe storage, including any incompatibilities

Stable under recommended storage conditions. Do not store outside. Keep container dry. Keep in a cool, dry, wellventilated place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Store away from moisture and heat to maintain the technical properties of the product. Avoid storage under pressure or at elevated temperatures above to particulate clustering. Do not store above 140 °F (60 °C). Do not store with alkalis or oxidizers.

# 7(c) Specific end use(s)

No additional information available.

# SECTION 8: Exposure Controls / Personal Protection

# 8(a)

Exposure Control Limits - ABS (Acrylonitrile-Butadiene-Styrene)			
	Form	TWA (Time Weighted Average)	
ACGIH	Inhalable Particles	10 mg/m <sup>3</sup>	
	Respirable Particles	3 mg/m <sup>3</sup>	

OSHA Table Z-1	Form	PEL (Permissable Exposure Limit)
Limits for Air	Respirable Fraction	5 mg/m <sup>3</sup>
Contaminants	Total Dust	15 mg/m <sup>3</sup>

	Form	TWA (Time Weighted Average)
	Respirable Fraction	15 ppm
OSHA Table Z-3	Total Dust	50 ppm
	Respirable Fraction	5 mg/m <sup>3</sup>
	Total Dust	15 mg/m <sup>3</sup>

#### Exposure Control Limits - Stainless Steel Alloy Components

Exposure Control Limits - Iron Oxide		
ACGIH TLV	5.0 mg/m <sup>3</sup>	
OSHA PEL	10.0 mg/m <sup>3</sup>	
NIOSH IDLH 2500 mg/m <sup>3</sup> as iron		
IDLH = Immediately dangerous to life and health.		

Exposure Control Limits - Chromium		
CAS#	7440-47-3	
EINECS#	231-157-5	
ACGIH TLV	0.5 mg/m <sup>3</sup>	
NIOSH IDLH	250 mg/m <sup>3</sup>	
OSHA PEL	1.0 mg/m <sup>3</sup>	
IDLH = Immediately dangerous to life and health.		
Chromium is on the SARA Title III, Section 313 Toxic Chemicals List		

Exposure Control Limits - Nickel		
ACGIH TLV	1.5 mg/m <sup>3</sup>	
NIOSH IDLH	10 mg/m <sup>3</sup>	
OSHA PEL	1.0 mg/m <sup>3</sup>	
IDLH = Immediately dangerous to life and health.		
Nickel is on the SARA Title III, Section 313 Toxic Chemicals List		

# 8(b) Appropriate Engineering Controls

Use local exhaust ventilation during processing to reduce exposures below above limits. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection. When transferring products, earth/ground all subsequent equipment to minimize charges that may develop.

8(c) Individual Protection Measures Personal protective equipment:

Personal protective equipment:	Gloves. Safety Glasses. Protective Clothing.
Materials for protective clothing:	Standard issue work clothes, which may include apron, antistatic safety shoes or boots as necessary.
Eye protection:	Use good industrial practice to avoid eye contact. Wear safety glasses with side- shields. Processing of this product releases vapors or fumes which may cause eye irritation. Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available. Use full-face shield when cleaning processing vapor condensates from hood, ducts, and other surfaces.
Skin:	Processing of this product releases vapors or fumes which may cause skin irritation. Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Use heat protective gloves when handling hot, molten product. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin. Wash hands and contaminated skin thoroughly after contact with processing fumes or vapors or after handling the material.
Respiratory protection:	Avoid breathing dust. Avoid breathing processing fumes or vapors. During handling: if dust is generated, a parliculate pre-filter is recommended and for high airborne dust concentrations, a cartridge designed for nuisance dust is recommended. During high temperature processing: use local exhaust ventilation when available. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive- pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

SECTION 9: Physical and Chemical Properties				
9(a) Physical state: Solid		Solid		
	Appearance/Form:	Pellets; porous to dense		
	Color:	Various: tan, copper, gray or black - dependent on filler material		
9(b)	Odor:	Essentially odorless, may be faint odor		
9(c)	Odor threshold:	Not determined		
9(d)	pH:	No data available		
9(e)	Melting point:	This product does not exhibit a sharp melting point but softens gradually over a wide		
		range of temperatures.		
	Softening point:	150-180 °F (66-82 °C)		
	Freezing point:	Not Applicable		
9(f)	Boiling point:	Not Applicable		
9(g)	Flash point:	660 °F (349 °C)		
9(h)	Evaporation rate:	Not Applicable, Solid		
9(i)	Flammability (solid, gas):	No data available		

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9(j)	Upper / Lower Flammability:	No data available
	Explosive Limits:	Not determined
9(k)	Vapor pressure:	Not Applicable, Solid
9(I)	Vapor Density:	Not Applicable, Solid
9(m)	Relative density:	Specific Gravity: 1 - 4.5
9(n)	Solubility (water):	68 °F (20 °C) insoluble
	Solubility (other):	No data available
9(o)	Partition Coefficient:	No data available
9(p)	Auto-Ignition Temperature:	> 752 °F (> 400 °C)
9(q)	Decomposition temperature:	> 572 °F (> 300 °C)
9(r)	Viscosity, Kinematic:	Not Applicable
	Viscosity, Dynamic:	Not Applicable
Other	Oxidizing properties:	No data available

SECTION	10: Stability and Reactivity			
10(a)	Reactivity:	Non-reactive. The product is stable under normal handling and storage conditions.		
10(b)	Chemical Stability:	Stable under ambient conditions. Hazardous polymerization does not occur.		
10(c)	Possibility of Hazardous Reactions:	Non-reactive. The product is stable under normal handling and storage conditions.		
10(d)	Conditions to Avoid:			
10(e)	Incompatible Materials:	Avoid contact with strong oxidizing agents.		
10(f)	Hazardous Decomposition:	Hazardous vapors from heated product are not expected to be generated under normal processing temperatures and conditions. Process vapors under recommended processing conditions may include trace levels of hydrocarbons, styrene, acrylonitrile, acrolein, acetaldehyde, acetophenone, ethyl benzene, cumene, alpha methylstyrene, 4-vinylcyclohexene, phenols. Although highly dependent on temperature and environmental conditions, a variety of thermal decomposition products may be present if the product is overheated (> 572 °F (> 300 °C)), is smoldering, or catches fire. The following hazardous toxic, flammable, and/or corrosive products of combustion can occur: hydrogen cyanide (hydrocyanic acid) (traces) and hydrocarbon fragments		

# SECTION 11: Toxicological Information

This product is a mixture that has not been evaluated as a whole for health effects. Exposure effects listed below are based on existing health data for the individual components which comprise the stainless steel alloy contained in the mixture.

11(a)	Routes of Exposure	
	Aspiration hazard:	(Rat) LD50 > 5,000 mg/kg (estimated).
	Skin corrosion/irritation:	Not irritating. (Rabbit) LD50 > 2,000 mg/kg (estimated).
	Serious eye damage/irritation:	Resin particles, like other inert materials, are mechanically irritating to eyes.
	Respiratory:	Pellet ingestion unlikely due to physical form.
	Ingestion:	Pellet ingestion unlikely due to physical form.
11(b)	Symptoms	See Section 4
11(c)	Effects - Short and Long Term	

Germ Cell Mutagenicity: Not classified; (No data available) AEC-SDS Ecomass Compound 0700ZC Series V.4 02-28-2019.xlsx Carcinogenicity:

# 11(d) Toxicity

Toxicity Overview:

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ	
			1	
Chronic Toxicity:	Salmonella typhimurium t concentrations up to 1 mg metabolic activation and h activation. In standard m observed. When using in	ester strains TA98, /plate, styrene has has tested either eq ammalian cells test vivo test systems, s e marrow cells but o	terial mutagenicity tests using TA100, TA1535, and TA1537 at been found to test negative without uivocal or negative with metabolic ted in vitro, no mutagenicity was styrene did not induce chromosome did increase sister chromatid exchanges e for 14 days.	
Subchronic Toxicity:	species following both ora liver (changes in enzyme l concentrations of 350 mg, weight changes are obser The no observed effect lev mg/kg/day, depending or were conducted in the 194 were exposed up to 8 hou 9.3 mg/L) and consistent s 1300 ppm and above. His	Styrene: Many repeat dose toxicity studies are available in several test animal species following both oral and inhalation exposure. In rats dosed orally, effects on liver (changes in enzyme levels and increased weight) were consistently observed at concentrations of 350 mg/kg and higher. Gastrointestinal irritation and kidney weight changes are observed at higher doses. Findings were similar for beagle dogs. The no observed effect levels (NOEL) ranged from 100 mg/kg/day to about 300 mg/kg/day, depending on the duration of exposure. A series of inhalation studies were conducted in the 1940s and 1950s. Rats, guinea pigs, rabbits, and monkeys were exposed up to 8 hours/day, 5 days/week for 6 months to 650 to 2000 ppm (3 – 9.3 mg/L) and consistent signs of significant eye and nose irritation were observed at 1300 ppm and above. Histopathological lesions at this concentration typically consisted of pulmonary lesions.		
Special Studies:	(approximately 14-21 mg, reproductive performance were reduced pup surviva of developmental effects was 250 ppm and the NOI developmental toxicity stu	/kg/day) produced e over 3- generation I index in the F1 and and no other effect EL for the F1 and F2 udies in rats, rabbits	d to 125 and 250 ppm in drinking water no treatment-related effects on ns. The only treatment related findings d F2 offspring. There was no evidence s were reported. The parental NOEL 2 offspring was 125 ppm. In s, and hamsters styrene was not a it only those doses that produced	
	fatigue, nausea, and dizzir Styrene has also been rep settings after exposure to produce color vision defici ppm (averaging 24 ppm). styrene and half have sup hematopoetic cancers (LH generally been small in siz relationship, and/or had m shown an association with (higher statistical power),	ness) at inhalation of orted to reduce ser 100 ppm or more. encies (dyschromat Twelve epidemiolo ported the hypothe C). However, those te (limited statistica nultiple chemical ex styrene and LHC, t had an older study of evidence sugges	nervous system depression (headache, concentrations greater than 50 ppm. hsory nerve conductions in occupation Styrene has also been reported to topsia) at concentrations greater than 8 ogy studies have been reported for esis that styrene produces lymphatic and e that show an increase of LHC have Il power), have shown no dose-response posures. Of the six studies that have not hese studies tended to be larger in size population, and had good exposure sts that there is not an association of LHC	

In a recent inhalation cancer bioassay, Sprague Dawley derived rats (70/sex/group) were exposed whole body to styrene vapor at 0, 50, 200, 500, or 1000 ppm 6 h/day 5 days / week for 104 weeks. Males exposed to 500 and 1000 ppm and females exposed to 200 ppm and higher gained significantly less weight than the controls. There were no changes of toxicologic significance in hematology, clinical chemistry, urinalysis, or organ weights. Styrene-related non-neoplastic histopathologic changes were confined to the olfactory epithelium of the nasal mucosa. The incidence and severity were related to dose. There was no evidence that styrene exposure caused treatment related increases of any tumor type in males or females or in the number of tumor bearing rats in the exposed groups compared to controls.

In 2-year carcinogenicity bioassays conducted by the National Toxicology Program, rats and mice (50/sex/group) received 0, 500, 1000, or 2000 mg/kg/day and 0, 150, or 300 mg/kg/day, respectively, via oral gavage. In male or female rats and female mice there was no significant difference in tumor incidence when compared to the control groups. In male mice there was a positive association between styrene dose and the incidence of the combination of adenomas and carcinomas of the lung. However, due to the high background incidence of this tumor type in male mice, no firm conclusion was drawn for the carcinogenicity.

In a study that administered styrene (125 and 250 ppm) in the drinking water of rats for 2 years, there was no evidence of carcinogenicity. In other chronic inhalation toxicity studies, rats were exposed to styrene via inhalation at concentrations up to 300 ppm for 4-6 hours/day, 5 days/week, for 1 year or up to 1000 ppm for 2 years. There was a slightly increased, but not statistically significant, incidence of mammary tumors in the females in both studies. Because the control incidence was also high and there was no dose-response relationship the studies were considered to be negative.

#### Additional Health Hazard Information:

	Acute Toxicity: Reproductive Toxicity:	Not classified Not classified; (No data available)
	Specific target organ toxicity (single exposure):	Not classified; (No data available)
	Specific target organ toxicity (repeated exposure):	Not classified; (No data available)
11(e)	Listings	
	IARC Group:	Not Listed

#### **Stainless Steel**

11(a)	Routes of Exposure	
	Inhalation:	Particulates can be mechanically irritating.
	Ingestion:	May be harmful if swallowed
	Eyes:	Particulates can be mechanically irritating.
	Skin:	Experience shows no unusual skin hazard from routine handling.
11(b)	Symptoms	See Section 4

# 11(c) Effects - Short and Long Term

Carcinogenicity:

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical	OSHA	IARC	NTP
7440-02-0	Nickel	No	2B	No

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

- 2A The component is probably carcinogenic to humans.
- 2B The component is possibly carcinogenic to humans.

# NTP Carcinogen Classifications:

- 1 The component is known to be a human carcinogen.
- 2 The component is reasonably anticipated to be a human carcinogen.

#### 11(d) Toxicity

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical	Effect	Target Organ
7439-89-6	Iron	Systemic effects	Eyes, Respiratory System
7440-47-3	Chromium	Systemic effects	Eyes, Skin, Respiratory System.
7440-02-0	Nickel	Systemic effects	Skin, Respiratory System.

## Additional Health Hazard Information:

**Chromium 7440-47-3**: Bivalent and trivalent forms of chrome have a low order of acute toxicity, but may cause skin sensitization and irritation to the eyes. No effects have been reported for chromium (III) oxide, Chromium (III) compounds are not considered carcinogenic in animals or humans.

Nickel 7440-02-0: Skin sensitizer "nickel itch", with pulmonary, brain, liver, kidney, and muscle effects.

#### 11(e) Listings

See Stainless Steel - 11(c)

SECTION 12: Ecological Information				
12(a)	Ecotoxicity	Iron, chromium, and nickel are components of the stainless steel alloy which is combined with the polymer in a matrix, thus not readily biodegradable.		
12(b)	Persistence and degradability	Iron, chromium, and nickel are components of the stainless steel alloy which is combined with the polymer in a matrix, thus not readily biodegradable.		
12(c)	Bioaccumulative potential	Iron, chromium, and nickel are components of the stainless steel alloy which is combined with the polymer in a matrix, thus not readily biodegradable.		
12(d)	Mobility in Soil	Insoluble in water, thus not readily mobile.		
12(e)	Other Adverse effects	No data available		

#### **SECTION 13: Disposal Considerations**

Where possible, recycling is preferred to disposal or incineration. If recycling is not an option, incinerate or dispose of in accordance with federal, state, and local regulations. Collected processing fume condensates and incinerator ash should be tested to determine waste classification. Pigmented, filled, and/or solvent laden product may require special disposal practices in accordance with federal, state, and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal, and other requirements listed in pertinent environmental permits. Note: chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

## **SECTION 14:** Transport Information

In accordance with DOT, this product is not regulated for transport. 14(a) **UN Number:** None 14(b) UN Number Shipping Name: None 14(c) Transport Hazard Class(es): None Packing Group: 14(d) None 14(e) **Environmental Hazards:** Not a marine pollutant 14(f) Transport in Bulk: None 14(g) **Special Precautions:** None

# SECTION 15: Regulatory Information

# **US Federal Regulations**

## SARA - Section 302 Extremely Hazardous Chemicals:

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

None

# SARA - Section 311/312 Hazard Classes:

None

SARA - Section 313 - Toxic Chemicals:						
Unless specifically ide	Unless specifically identified in this section, this material does not contain any chemical components with known CAS					
numbers that exceed	numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.					
Name Product Identifier Weight % SARA 313 - Threshold Values %						
CHROMIUM	7440-47-3	10 to 30	1.0			

CHROMIUM	7440-47-3	10 to 30	1.0
NICKEL	7440-02-0	10 to 30	0.1

CERCLA - Comprehensive Environmental Response, Compensation, & Liability Act - Reportable Quantity (RQ)		
Unless specifically identified in this section, the components in this product are either not CERCLA regulated, regulated but		
present in negligible concentrations, or regulated with no assigned reportable quantity.		

Name	Hazardous Substances RQs	CERCLA EHS RQs
Nickel	100 lb	None

Clean Water Act				
Component	CWA -	CWA - Reportable	CWA - Toxic	CWA - Priority Pollutants
None				

#### Clean Air Act - Not applicable

Unless specifically identified in this section, the components in this product are not considered hazardous by OSHA:
This product is classified as hazardous based on the components contained in the stainless steel alloy.

# **Chemical Inventory Status**

European Inventory of Existing Commercial Chemical	EU, EINECS	Listed
United States TSCA (Toxic Substances Control Act) Inventory	TSCA	Listed
Canadian Domestic Substances List	DSL	Listed or Exempt
China. Inventory of Existing Chemical Substances Produced or Imported in China	IECSC (CN)	Listed
Japan. ENCS - Existing & New Chemical Substances Inventory	ENCS (JP)	Listed
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	Listed
Korea. Korean Existing Chemicals Inventory	KECI (KR)	Listed
Philippines Inventory of Chemicals and Chemical Substances	PICCS (PH)	Listed
Australian Inventory of Chemical Substances	AICS	Listed

#### **US State Regulations**

**California Prop. 65:** Components in this product known to the State of California to cause cancer, birth defects, or any other reproductive defects are listed below:

Chemical Name	Weight %	California Proposition 65:
Acrylonitrile 107-13-1	< 100 ppm	Type of Toxicity: cancer
Ethylbenzene 100-41-4	< 100 ppm	Type of Toxicity: cancer

# SECTION 16: Other Information

Revision Date: February 28, 2019

Version Number: 04

Ecomass<sup>®</sup> is a registered trademark.

#### ABBREVIATIONS / ACRONYMS / REFERENCES:

- AND EU Agreement for the International Transport of Dangerous Goods by Inland Waterways, as amended
- ADR EU Agreement for the International Carriage of Dangerous Goods by Road, as amended
- CAS Chemical Abstracts Services (Division of the American Chemical Society)
- GHS Globally Harmonized System of Classification and Labelling of Chemicals, as amended
- HMIS Hazardous Materials Identification System
- IATA International Air Transport Association
- ICAO International Civil Aviation Organization
- IMDG International Maritime Code for Dangerous Goods, as amended
- LCSO Lethal Concentration of 50 Percent of Organisms
- MARPOL International Convention for the Prevention of Pollutants from Ships, 1973, as amended
- MHLW Japanese Ministry of Health, Labor, and Welfare

NFPA 704 National Fire Protection Association

- OE Oil Extended
- OEL Occupational Exposure Limit
- RID EU Standards Regulations Concerning the International Transport of Dangerous Goods by Rail
- TLV Threshold Limit Value
- TWA Time Weighted Average
- UN United Nation
- USP United States Pharmacopeia for the Testing of Biological Endpoints for Medical Devices

## DISCLAIMER:

The information is based on present knowledge. This does not constitute a guarantee for any product features or specifications. It does not establish a legal contractual relationship. The information, data, and recommendations are made to our reasonable ability in good faith and obtained from reliable sources. Completeness is not guaranteed. It is intended to describe the products for the purpose of Health, Safety, and Environmental requirements only. The Safety Data Sheet is guidance for product uses. Advice applies to the products as originally supplied. Where other ingredients are added in the processing of these products, it is the users responsibility to evaluate or consult on their safe handling and use. It is the responsibility of the user to comply with all Local, Federal, and International Legislation and Local Permits when using. Further, since the conditions and methods of use are beyond the control of Americhem Engineered Compounds, Americhem Engineered Compounds expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

We believe the information set forth in this document to be true and accurate, but any recommendations, statements, or suggestions made in the foregoing text are without any warranty or guarantee whatsoever, and shall establish no legal duty or responsibility on the part of the author(s) or their employer. Furthermore, nothing set forth above shall be construed as a recommendation to use any product in conflict with any existing patent rights.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.