Ecomass Technologies Safety Data Sheet Ecomass Compound 4300ZC Series

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

1(a)	Product Identifier used on label			
	Ecomass Compound:	4300ZC Series		
	Form:	Plastic Compound: Polyphthalamide (PPA) & Metallic Powder Mixture (Pellets)		
.(b)	Other means of identification			
	РРА			
(c)	Recommended use of the che	emical and restrictions on use		
	1. Uses: Thermoplastic for Injection Molding and Extrusion			
	2. Restrictions on Uses: No	ne		
(d)	Name, address, & telephone number of the chemical manufacturer, importer, or supplier			
	Ecomass Technologies			
	4101 Parkstone Heights, Suite 380			
	Austin, Texas 78746			
	512-306-0020			
.(e)	Emergency phone number			
	512-306-0020			

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.	

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 infection. 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.

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.

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

Name	Product Identifier	%	Classification (GHS-US)
Polyphthalamide (PPA)	(CAS No) 25776-72-1	< 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. Supply fresh air. Consult physician. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	After Skin Contact:	No known effects. Flush 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. Flush eyes with water. If contact with molten product, immediately flush with cool water. Seek medical treatment.
	After Ingestion:	No known effects. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. DO NOT induce vomiting unless directed to do so by medical personnel. Seek medical treatment.
4(b)	Most important symptoms and eff	fects, both acute and delayed
	Symptoms/Injuries:	No known effects. Long term skin contact could cause skin dryness. Inhalation of decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
4(c)	Indication of any immediate medio	cal attention and special treatment needed
	Treat symptoms as above. No spec	ific antidote. Consult physician and/or seek medical treatment.
	Notes to Physician:	In case of inhalation of decomposition products in a fire, symptoms may be delayed.
		The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION	SECTION 5: Fire Fighting Measures	
5(a)	Suitable Extinguishing Media	
	Use an extinguishing agent suitable for the surrounding fire - foam, water spray, carbon dioxide (CO ₂), or dry powder.	
	Unsuitable Extinguishing Media	
	None known	

5(b) Specific hazards arising from the substance or mixture

Fire hazard:Not flammable but will burn and the following hazardous products of combustion can occur: aldehydes, carbon dioxide (CO2), carbon monoxide (CO), nitrogen oxides (NO2), methyl-acrylonitrile, ammonia, and other organic vapors. High dust concentrations have a potential for combustion or explosion.NOTE:If polyacetal or polyoxymethylene resin is molded or handled in your equipment, this material can rapidly decompose at processing temperatures. Inadvertent contamination of this material with polyacetal resin from the material handling system or other equipment can result in a rapid, possibly violent, release of decomposition fumes when the contaminated material is brought to processing temperature. To avoid, thoroughly clean molding equipment with purging compound prior to product changeover and prevent cross contamination from material handling systems or any other source.Explosion hazard:See Fires Hazard Above. Static charge buildup can be a potential fire hazard when used in the presence of volatile, flammable vapors, or in high airborne dust concentrations.S(c)Advice for Fire Fighters Precautions:Use standard protective clothing for fire fighters. Self contained breathing apparatus (SCBA) should be worn to prevent inhalation of smoke and decomposition products in the event the material should burn. Decontaminate fire fighting equipment after use.	5(D)	Specific flazarus arising from the	
equipment, this material can rapidly decompose at processing temperatures. Inadvertent contamination of this material with polyacetal resin from the material handling system or other equipment can result in a rapid, possibly violent, release of decomposition fumes when the contaminated material is brought to processing temperature. To avoid, thoroughly clean molding equipment with purging compound prior to product changeover and prevent cross contamination from material handling systems or any other source.Explosion hazard:See Fires Hazard Above. Static charge buildup can be a potential fire hazard when used in the presence of volatile, flammable vapors, or in high airborne dust concentrations.Sec Fires FightersNon-reactive.F(c)Advice for Fire FightersPrecautions:Use standard protective clothing for fire fighters. Self contained breathing apparatus (SCBA) should be worn to prevent inhalation of smoke and decomposition products in the event the material should burn. Decontaminate fire		Fire hazard:	can occur: aldehydes, carbon dioxide (CO_2), carbon monoxide (CO), nitrogen oxides (NO _x), methyl-acrylonitrile, ammonia, and other organic vapors. High dust
S(c) Advice for Fire Fighters Precautions: Use standard protective clothing for fire fighters. Self contained breathing apparatus (SCBA) should be worn to prevent inhalation of smoke and decomposition products in the event the material should burn. Decontaminate fire			equipment, this material can rapidly decompose at processing temperatures. Inadvertent contamination of this material with polyacetal resin from the material handling system or other equipment can result in a rapid, possibly violent, release of decomposition fumes when the contaminated material is brought to processing temperature. To avoid, thoroughly clean molding equipment with purging compound prior to product changeover and prevent cross contamination from
5(c) Advice for Fire Fighters Precautions: Use standard protective clothing for fire fighters. Self contained breathing apparatus (SCBA) should be worn to prevent inhalation of smoke and decomposition products in the event the material should burn. Decontaminate fire		Explosion hazard:	used in the presence of volatile, flammable vapors, or in high airborne dust
Precautions: Use standard protective clothing for fire fighters. Self contained breathing apparatus (SCBA) should be worn to prevent inhalation of smoke and decomposition products in the event the material should burn. Decontaminate fire		Reactivity:	Non-reactive.
apparatus (SCBA) should be worn to prevent inhalation of smoke and decomposition products in the event the material should burn. Decontaminate fire	5(c)	Advice for Fire Fighters	
		Precautions:	apparatus (SCBA) should be worn to prevent inhalation of smoke and decomposition products in the event the material should burn. Decontaminate fire

SECTIO	N 6: Accidental Release Measu	ires
6(a)	Personal precautions, prote	ective 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:	Prevent 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 has a tendency to 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. 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.

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. Do not store above 140 °F (60 °C). Do not store with alkalis, oxidizers, or acids.

7(c) Specific end use(s)

No additional information available.

SECTION 8: Exposure Controls / Personal Protection

8(a) Exposure Control Limits - Polyphthalamide (PPA)

	Form	Time Weighted Average
ACGIH	Inhalable Particles	10 mg/m ³
	Respirable Particles	3 mg/m ³

OSHA Table Z-1	Form	PEL
Air Contaminants	Respirable Fraction	5 mg/m ³
Air Contaminants	Total Dust	15 mg/m ³

Exposure Control Limits - Stainless Steel Alloy Components

Exposure Control Limits - Iron Oxide		
ACGIH TLV 5.0 mg/m ³		
OSHA PEL 10.0 mg/m ³		
NIOSH IDLH 2500 mg/m ³ 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 ³		
NIOSH IDLH 250 mg/m ³		
OSHA PEL 1.0 mg/m ³		
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 ³	
NIOSH IDLH	10 mg/m ³	
OSHA PEL	1.0 mg/m ³	
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. When transferring products, earth/ground all subsequent equipment to minimize charges that may develop.

Individual Protection Measures 8(c)

Personal protective equipment:

Safety Glasses. Protective Clothing. Gloves.



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. Ensure that eyewash stations and safety showers are close to the workstation location.
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. 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 particulate 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.

SECTIO	SECTION 9: Physical and Chemical Properties			
9(a) Physical state: Solid		Solid		
Appearance/Form: Pellets; porous to dense		Pellets; porous to dense		
Color: Various: tan, copper, gray or black - dependent on filler material		Various: tan, copper, gray or black - dependent on filler material		
9(b)	Odor:	Essentially odorless, if ground will have pungent odor of organic amine		
9(c)	c) Odor threshold: Not determined			
9(d)	pH:	No data available		

9(e)	Melting point/range:	586 °F (308 °C)
	Freezing point:	Not Applicable
9(f)	Boiling point:	Not Applicable
9(g)	Flash point:	> 586 °F (308 °C)
9(h)	Evaporation rate:	Not Applicable, Solid
9(i)	Flammability (solid, gas):	Not determined
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):	Insoluble
	Solubility (other):	Not determined
9(o)	Partition Coefficient:	No data available
9(p)	Auto-Ignition Temperature:	Not determined
9(q)	Decomposition temperature:	> 662 °F (350 °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) 10(d)	Possibility of Hazardous Reactions: Conditions to Avoid:	Non-reactive. The product is stable under normal handling and storage conditions. Avoid accumulations of molten material during processing in excess of 50 lbs (22.5 Kgs), which may result in excessive pressure buildup from thermal degradation of the product. Avoid prolonged exposure to heat or UV light since this may affect product properties. Product will burn when exposed to continuous sources of ignition. See Hazardous Decomposition below.
10(e)	Incompatible Materials:	If polyacetal and polyoxymethylene resin is molded or handled in your equipment this material can rapidly decompose at processing temperatures. Inadvertent contamination of this material with polyacetal resin from the material handling system or other equipment can result in a rapid possibly violent release of decomposition fumes when the contaminated material is brought to molding temperature. To avoid, thoroughly clean molding equipment with purging compound prior to product changeover and prevent cross contamination of material handling systems.
10(f)	Hazardous Decomposition:	Hazardous vapors from heated product are not expected to be generated under normal processing temperatures and conditions. No hazardous decomposition under ambient temperatures. Although highly dependent on temperature and environmental conditions, a variety of thermal decomposition products may be present if the product is overheated, is smoldering, or catches fire. Thermal decomposition may produce toxic, flammable, and/or corrosive products: aldehydes, carbon dioxide (CO_2), carbon monoxide (CO), nitrogen oxides (NO_x), methyl-acrylonitrile, ammonia, and other organic vapors.

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.

Polyphth	alamide (PPA)	
11(a)	Routes of Exposure	
	Aspiration hazard:	Not classified
	Skin corrosion/irritation:	Not classified
	Serious eye damage/irritation:	Not classified
	Respiratory or skin sensitization:	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
11(b)	Symptoms	See Section 4
11(c)	Effects - Short and Long Term	
	Germ Cell Mutagenicity:	Not classified
	Carcinogenicity:	Not classified
11(d)	Toxicity	
	Toxicity Overview:	
	Acute Toxicity:	Not classified
	Reproductive Toxicity:	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	Not listed or not regulated
	OSHA	Not listed or not regulated
	NTP	Not listed or not regulated

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 Name	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 Name	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	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	No data available		
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, disposal at a permitted landfill in accordance with federal, state, and local regulations is recommended. 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, IATA, and	d IMDG, 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
14(d)	Packing Group:	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

Unless specifically identified in this section, 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 identified in this section, this material does not contain any chemical components with known CAS 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
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

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

	WARNING! This product contains chemicals known to the State of California to
California Prop. 65	cause cancer, birth defects, or other reproductive defects.

SECTION 16: Other Information

Revision Date: September 8, 2016

Version Number: 03

Ecomass[®] 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:

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