# DOMO Engineering Plastics US Safety Data Sheet

## **Ecomass Compounds 4700ZC Series**

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

|        | According to rederarm   | egister / vol. //, No. 38/ Monday, March 20, 2012 / Nules and Regulations         |  |
|--------|---|---|--|
| SECTIO | N 1: Identification   |   |  |
| 1(a)   | Product Identifier used on la   | bel   |  |
|        | Ecomass Compounds:  | 4700ZC Series   |  |
|        | Form:   | Plastic Compound (Thermoplastic Polyurethane) & Metallic Powder Mixture (Pellets) |  |
| 1(b)   | Other means of identification   |   |  |
|        | TPU   |   |  |
| 1(c)   | Recommended use of the ch   | emical and restrictions on use  |  |
|        | 1. Uses: Thermoplastic Polyurethane for Injection Molding and Extrusion               |   |  |
|        | 2. Restrictions on Uses: None   |   |  |
| 1(d)   | Name, address, & telephone number of the chemical manufacturer, importer, or supplier |   |  |
|        | DOMO Engineering Plastics US  |   |  |
|        | 4917 Golden Parkway, Suite 300  |   |  |
|        | Buford, GA 30518  |   |  |
|        | 770-237-2311  |   |  |
| 1(e)   | Emergency phone number  |   |  |
|        | 770-237-2311  |   |  |
|        |   |   |  |
| SECTIO | N 2: Hazard(s) Identification   |   |  |
| 2(a)   | Hazard Classification   |   |  |

| 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. During handling and use, product can cause static discharge. In the presence of flammable materials a fire and/or explosion may occur. Molten material may cause thermal eye burns or thermal skin burns. 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, or 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) |
|----------------------------|---------------------|----------|-------------------------|
| Thermoplastic Polyurethane | (CAS No) 75701-44-9 | < 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   |

| SECTION | N 4: First Aid Measures  |  |
|---------|--|--|
| 4(a)    | Description of First Aid Measures  |  |
|         | After Inhalation:  | No known effects. Move exposed person to fresh air. If not breathing, if breathing<br>is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by<br>trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband.<br>Get medical attention immediately.   |
|         | After Skin Contact:  | No known effects. Immediately flush skin with plenty of water for at least 15<br>minutes while removing contaminated clothing and shoes. Wash clothing before<br>reuse. Clean shoes thoroughly before reuse. If contact with molten product,<br>immediately flush with cool water and apply ice. Do not pull solidified product off<br>skin. Seek medical treatment. |
|         | After Eye Contact:   | No known effects. Check for and, if easy to do, remove any contact lenses.<br>Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical<br>treatment immediately.  |
|         | After Ingestion:   | No known effects. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately if large quantities have been ingested. Get medical attention immediately.  |
| 4(b)    | Most important symptoms and effects, both acute and delayed                |  |
|         | Symptoms/Injuries:   | See Section 11(a)  |
| 4(c)    | Indication of any immediate medical attention and special treatment needed |  |

Treat symptoms as above. No specific antidote. Consult physician and/or seek medical treatment.

# SECTION 5: Fire Fighting Measures

# 5(a) Suitable Extinguishing Media

For small fires use dry chemical powder. For large fires use water spray, fog, or foam, and call for fire-fighting assistance. Unsuitable Extinguishing Media

Do not use a solid water jet stream, as it may scatter and spread fire.

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

The following hazardous products of combustion can occur: trace amounts of oxides of carbon & nitrogen. During a fire, irritating and highly toxic gases may be generated during combustion or decomposition.

Explosion hazard:Static charge buildup can be a potential fire hazard when used in the presence of<br/>volatile, flammable vapors or in high airborne dust concentrations.Reactivity:Non-reactive.5(c)Advice for Fire Fighters<br/>Precautions:Use standard protective clothing for fire fighters. Self contained breathing<br/>apparatus (SCBA) with a full face-piece operated in positive pressure mode should<br/>be worn to prevent inhalation of smoke and decomposition products in the event<br/>the material should burn. Decontaminate fire fighting equipment after use.

| SECTION 6: Accidental Release Measures |  |   |  |
|--|--|---|--|
| 6(a)                                   | Personal precautions, prote                          | 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.<br>Shovel, scoop, sweep up or use industrial vacuum cleaner and return to original<br>container. Products are non-hazardous waste. Proper disposal should be<br>evaluated based on local, state, and federal regulations/legislation or directives.<br>Users must determine if a report is required to EPA for any amounts of this material<br>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 from loading or transferring material and post molding processing activities. 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. When processing these products, maintain a fire watch if material reaches 232 °C (450 °F). Operating below these temperatures does not guarantee the absence of product degradation. 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 will 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. 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 - Thermoplastic Polyurethane

Does not have assigned exposure limits.

| OSHA Table Z-1   | Form                | PEL (Permissable Exposure Limit) |
|------------------|---------------------|----------------------------------|
| Particulates Not | Respirable Fraction | 5 mg/m <sup>3</sup>              |
| O/W Regulated    | 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. When transferring products, earth/ground all subsequent equipment to minimize charges that may develop.

# 8(c) Individual Protection Measures

Personal protective equipment:

Gloves. Safety Glasses. Protective Clothing.



Materials for protective clothing:

Eye protection:

Standard issue work clothes which may include apron and antistatic safety shoes or boots as necessary.

Use good industrial practice to avoid eye contact. Wear Safety glasses with sideshields. 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. 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. Avoid breathing dust. Avoid breathing processing fumes or vapors. During **Respiratory protection:** 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.

| (a)  | Physical state:             | Solid  |
|------|-----------------------------|--|
|      | Appearance/Form:            | Pellets; porous to dense   |
|      | Color:                      | Various: tan, copper, gray or black - dependent on filler material               |
| (b)  | Odor:                       | Essentially odorless, may be faint odor  |
| (c)  | Odor threshold:             | Not determined   |
| (d)  | pH:                         | No data available  |
| (e)  | Melting point:              | 350 °F (177 °C)  |
|      | Freezing point:             | Not Applicable   |
| (f)  | Boiling point:              | Not Applicable   |
| (g)  | Flash point:                | Not determined   |
| (h)  | Evaporation rate:           | Not Applicable, Solid  |
| (i)  | Flammability (solid, gas):  | See GHS Classification in Section 2  |
| (j)  | Upper / Lower Flammability: | No data available  |
|      | Explosive Limits:           | Slightly explosive in the presence of open flames, sparks, and static discharge. |
| (k)  | Vapor pressure:             | Not Applicable, Solid  |
| (I)  | Vapor Density:              | Not Applicable, Solid  |
| (m)  | Relative density:           | Specific Gravity: 1 - 4.5  |
| (n)  | Solubility (water):         | Insoluble  |
|      | Solubility (other):         | No data available  |
| (o)  | Partition Coefficient:      | No data available  |
| (p)  | Auto-Ignition Temperature:  | No data available  |
| (q)  | Decomposition temperature:  | No data available  |
| (r)  | Viscosity, Kinematic:       | Not Applicable   |
|      | Viscosity, Dynamic:         | Not Applicable   |
| ther | 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:                | 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:             | Avoid contact with strong acids, alkalis, and oxidizing agents.  |
| 10(f)                                | Hazardous Decomposition:            | Hazardous vapors from heated product are not expected to be generated under<br>normal processing temperatures and conditions. No hazardous decomposition<br>under ambient temperatures. Although highly dependent on temperature and<br>environmental conditions, a variety of thermal decomposition products may be<br>present if the product is overheated, is smoldering, or catches fire. The following<br>hazardous products of combustion can occur: trace amounts of oxides of carbon &<br>nitrogen. During a fire, irritating and highly toxic gases may be generated during<br>combustion or decomposition, including isocyanates and small amounts of<br>hydrogen cyanide. |

# 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.

# Thermoplastic Polyurethane

| 11(a) | Routes of Exposure                                  |   |  |
|-------|---|---|--|
|       | Inhalation:   | Avoid inhalation of mists or vapors. Slightly irritating to the respiratory system.<br>Overexposure to vapors or mist may cause dizziness, headache, nausea, and/or flu-<br>like symptoms.  |  |
|       | Ingestion:  | Not hazardous in normal industrial use. May cause irritation of the gastrointestinal tract.   |  |
|       | Skin:   | Non-irritating. Molten polymer will adhere to skin causing deep thermal burns.  |  |
|       | Eye:  | At processing or combustion temperatures this product may emit fumes and vapors that cause irritation, possibly severe, to the eyes. May cause physical abrasion in contact with eyes. Molten polymer will cause serious burns to the eyes. |  |
| 11(b) | Symptoms  | See Section 11(a)   |  |
| 11(c) | Effects - Short and Long Term                       |   |  |
|       | Chronic effects:                                    | No known significant effects or critical hazards.   |  |
|       | Target organs:                                      | No known significant effects or critical hazards.   |  |
|       | Mutagenicity:                                       | There is no substantial evidence of mutagenic potential.  |  |
|       | Carcinogenicity:                                    | The ingredients of this product are either not classified or not regulated as carcinogenic by ACGIH, IARC, OSHA, or NTP.  |  |
|       | Reproductive effects:                               | No adverse reproductive effects are anticipated.  |  |
| 11(d) | Toxicity  |   |  |
|       | Acute Toxicity:                                     | Not classified; (No data available)   |  |
|       | 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)   |  |

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## Stainless Steel

| 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. |
| Symptoms    | See Section 4  |

# 11(c) Effects - Short and Long Term

#### Carcinogenicity:

11(b)

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

| CAS-No.   | Chemical<br>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<br>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)

| SECTIO         | 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)<br>12(e) | Mobility in Soil<br>Other Adverse effects | No data available<br>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. Pigmented, filled, and/or solvent laden product may require special disposal practices in accordance with federal, state, regional, and local laws and 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                   |
| 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.

# 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 |                               |
| NICKEL   | 7440-02-0          | 10 to 30 |                               |

# **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**

| clean water Act |                    |                                |                           |                           |
|-----------------|--------------------|--------------------------------|---------------------------|---------------------------|
| Component       | CWA -<br>Hazardous | CWA - Reportable<br>Quantities | CWA - Toxic<br>Pollutants | CWA - Priority Pollutants |
| 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 Substances                  | 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**

| Pennsylvania Right to Know | CAS Number   | 75701-44-9 |  |
|----------------------------|--|------------|--|
| California Prop. 65        | WARNING! This product contains chemicals known to the State of California to |            |  |
|                            | cause cancer, birth defects, or other reproductive defects.                  |            |  |

# SECTION 16: Other Information

Revision Date: August 3, 2016

Version Number: 03

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 SDS Ecomass Compound 4700ZC Series V.3 08-03-2016\_

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