Revision Date: 3/4/18

SECTION 1: IDENTIFICATION

1.1 Product Identifier
Product Name    PG7.2
Product Code     FOAM BAN*MS-455

1.2 Relevant identified uses of the substance or mixture and uses advised against
Recommended Use   Anti-foaming agent (deformer)
Uses Advised Against  Consumer Use

1.3 Details of the supplier of the safety data sheet
Manufacturer     PostProcess Technologies, Inc.
Address     2495 Main St., Suite 615, Buffalo, NY 14214
716-888-4579 (Monday - Friday, 8:00 am - 5:00 pm, Eastern Standard Time)

1.4 Emergency telephone number
Emergency telephone number  Chemtrec  (24 hrs. - for spill, leak, or transportation incidents)
US: (800) 424-9300
Outside US: (703) 527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation     Category 2A
Skin Sensitization   Category 1

2.2 Label Elements

Signal Word: Warning
Hazard Statements
Causes serious eye irritation
May cause an allergic skin reaction

Precautionary Statements - Response
Specific treatment (see FIRST AID on this label)

FIRST AID
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal

2.3 Other hazards
Hazards not otherwise classified (HNOC) Not applicable

Unknown acute toxicity 9.075% of the mixture consists of ingredient(s) of unknown toxicity

Other Information Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature of the product Polymer dispersion

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>% (weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>5-Decyne-4, 7-diol, 2, 4, 7, 9-tetramethyl</td>
<td>126-86-3</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.
SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

**Eye contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

**Skin contact**
Wash off immediately with soap and plenty of water. If skin irritation persists, call as physician. Remove and wash contaminated clothing before re-use.

**Inhalation**
Move victim to fresh air.

**Ingestion**
Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

**Most important symptoms and effects**
No information available.

4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician**
Treat symptomatically

SECTION 5: MIRE-FIGHTING MEASURES

5.1 Extinguishing media

**Suitable extinguishing media**
Water spray. Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam. Water mist may be used to cool closed containers.

**Unsuitable extinguishing media**
No information available.

5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products**
Thermal decomposition can lead to release of irritating gases and vapors. Material. Thaw and mix before using.

**Explosion Data**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity to mechanical impact</td>
<td>No</td>
</tr>
<tr>
<td>Sensitivity to static discharge</td>
<td>No</td>
</tr>
</tbody>
</table>

5.3 Advice for firefighters

**Advice for fire-fighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protection equipment. Avoid contact with skin, eyes, or clothing.

Protective precautions
Ensure adequate ventilation. Avoid exceeding of the given occupational exposure limits (section 8).

Emergency procedures
Evacuate personnel to safe areas. Remove all sources of ignition. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Environmental precautions
Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Methods for containment
Local authorities should be advised if significant spillages cannot be contained. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Methods for clean-up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

Reference to other sections
See Sections 5 & 7 for additional information.

SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling
Use personal protection equipment. Avoid contact with skin, eyes, or clothing. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure guidelines

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>Ceiling: 100mg/m³</td>
<td>Ceiling: 50 ppm</td>
<td>-</td>
</tr>
<tr>
<td>107-21-1</td>
<td>Ceiling: 125 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

Eye/Face protection

Ensure that eyewash stations and safety showers are close to the workstation location. Tight sealing safety gloves.

Skin protection

Wear suitable protective clothing and gloves.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Slippery, can cause falls if walked on.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State: Liquid
Appearance: Translucent white
Odor: Slight
Odor threshold: No information available
## SAFETY DATA SHEET PG7.2

### Property | Values | Remarks / Method |
---|---|---|
PH | 7.8 | No information available |
Melting point/freezing point | No information available | No information available |
Boiling point | 100° C / 212° F | No information available |
Flash point | > 93.3° C / 200° F | No information available |
Evaporation rate | No information available | No information available |
Flammability (solid, gas) | No information available | No information available |
Flammability Limit in Air | No information available | No information available |
  - Upper flammability limit | No information available |
  - Lower flammability limit | No information available |
Vapor pressure | No information available | No information available |
Vapor density | No information available | No information available |
Specific gravity | 1.05 | No information available |
Water solubility | Dispersible | No information available |
Solubility in other solvents | No information available | No information available |
Partition coefficient: n-octanol/water | No information available | No information available |
Autoignition temperature | No information available | No information available |
Decomposition temperature | No information available | No information available |
Viscosity | ~2500 cps @ 25° C | No information available |
Explosive properties | No information available | No information available |
Oxidizing properties | No information available | No information available |

### 9.2 Other Information
VOC content (%) | 3.98 - EPA Method 24 |

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity
Reactivity | Stable under normal conditions |

#### 10.2 Chemical stability
Chemical Stability | Stable under normal conditions |

#### 10.3 Possibility of hazardous reactions
Possibility of hazardous reactions | None under normal processing |
Hazardous polymerization | Hazardous polymerization does not occur |

#### 10.4 Conditions to avoid
Conditions to avoid | Keep at temperature above 0° C |

#### 10.5 Incompatible materials
Incompatible materials | Strong oxidizing agents |

#### 10.6 Hazardous decomposition products
Hazardous decomposition products | Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides. Silicon dioxide. Formaldehyde. |
SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure

Product Information

Information given is based on data on the components and the toxicology of similar products.

Eyes
Irritating to eyes. Risk of serious damage to eyes. Avoid contact with eyes.

Skin
May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Avoid contact with skin.

Inhalation
Health injuries are not known or expected under normal use.

Ingestion
Health injuries are not known or expected under normal use.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 55,942.00 mg/kg
ATEmix (dermal) 21,193.00 mg/kg
ATEmix (inhalation-dust/mist) 344.17 mg/L

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Decyne-4, 7-diol, 2, 4, 7, 9-tetramethyl-126-86-3</td>
<td>-</td>
<td>-</td>
<td>&gt; 20 mg/L (Rat)</td>
</tr>
<tr>
<td>Polyalkylene glycol</td>
<td>= 28g/kg (Rat)</td>
<td>&gt; 20 g/kg (Rabbit)</td>
<td>&gt; 13 ppm (Rat)</td>
</tr>
<tr>
<td>Organosiloxane polymer</td>
<td>&gt; 17 g/kg (Rat)</td>
<td>&gt; 2 g/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Organosiloxane</td>
<td>-</td>
<td>&gt; 16 mL/kg (Rabbit)</td>
<td>&gt; 8750 mg/m³ (Rat) 7 h</td>
</tr>
<tr>
<td>Polyalkylene glycol</td>
<td>= 5700 mg/kg (Rat)</td>
<td>-</td>
<td>1.44 - 9 mg/L (Rat)</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>4000 - 10200 mg/kg (Rat)</td>
<td>= 10600 mg/kg (Rat) = 9530</td>
<td>-</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET PG7.2

Delayed and immediate effect as well as chronic effects from short and long-term exposure

Irritation

Eye irritation

Sensitization

May cause sensitization by skin contact. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Mutagenic effects

No information available

Reproductive effects

No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Aspiration hazard

No information available

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity

Information given is based on data on the components and the ecotoxicology of similar products

Unknown Aquatic Toxicity

53.90129% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

<table>
<thead>
<tr>
<th>Component</th>
<th>Algae</th>
<th>Fish</th>
<th>Daphnia Magna</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Decyne-4, 7-diol, 2, 4, 7, 9-tetramethyl-126-86-3</td>
<td>EC50 (72h): 82 mg/L (Selenastrum capricornutum) EC50 (72h): 112 mg/L (Selenastrum costatum)</td>
<td>LC50 (24h): 42 mg/L Carp, (Cyprinus carpio) LC50 (96h): 36 mg/L Fathead minnow (Pimephales promelas) LC50 (96h): 42 mg/L Carp (Cyprinus carpio) LC50 (96h): 43 mg/L Species: Turbot (Scophtalmus maximus)</td>
<td>EC50 (48h): 91 mg/L (Daphnia magna) LC50 (48h): 166 mg/L (Daphnia tonsa)</td>
</tr>
<tr>
<td>Polyalkylene glycol</td>
<td></td>
<td>LC50 (96h): &gt;73,000 mg/L (Fathead minnow (Pimephales promelas)) LC50: &gt; 500mg/L (Golden orfe)</td>
<td>LC50: &gt;10,000 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Component</td>
<td>Algae</td>
<td>Fish</td>
<td>Daphnia Magna</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>---------------------------------</td>
<td>-------------------------------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>Polyalkylene glycol</td>
<td>EC50 (48h): 100 mg/L</td>
<td>LC50: &gt;100 mg/L (Golden orfe) (96h)</td>
<td>EC50 (48h): &gt;100 mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LC50 (48h): 15.6 (14.6-16.5) mg/L (Daphnia)</td>
</tr>
<tr>
<td>Ethylene glycol 107-21-1</td>
<td>6500 - 13,000: (96h) Psuedokirchneriella subcaitata mg/L EC50</td>
<td>LC50 (96h): 18,500 mg/L (Rainbow trout) LD50 (96h): &gt;5,000 mg/L (Carcassius auratus (goldfish)) LC50 (96h): 8,050 mg/L (Pimephales promelas)</td>
<td>46,300: (48h) Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

### 12.2 Persistence and Degradability

Persistence and degradability  No information available

### 12.3 Bioaccumulative potential

Bioaccumulation / Accumulation

<table>
<thead>
<tr>
<th>Component</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol 107-21-1</td>
<td>-1.93</td>
</tr>
</tbody>
</table>

### 12.4 Mobility in Soil

Mobility in Environmental Media  No information available

### 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment  Not applicable

### 12.6 Other adverse effects

Other adverse effects  No information available
SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal methods
Contain and dispose of waste according to local regulations

Contaminated packaging
Empty containers should be taken for local recycling, recovery or waste disposal. Dispose of contents / containers in accordance with local regulations.

US EPA Waste Number
Product, as sold, is not a US EPA RCRA Waste. Waste must be classified and labelled prior to recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

DOT
Not regulated

ICAO/IATA
Not regulated

IMDG/IMO
Not regulated

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislations specific for the substance or mixture

International Inventories

US TSCA
Complies

Austrailia (AICS)
Complies

Canada (DSL)
Complies

China (IECSC)
Complies

Europe (EINECS/ELINCS/NLP)
Complies

Japan (METI)
Complies

South Korea (KECL)
Contact manufacturer

Phillipines (PICCS)
Contact manufacturer

New Zealand
Contact manufacturer

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Basic Substances List / Non-Domestic Substances List
EINECSELINCS - European Inventory of Existing Chemical Substances / European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korea Existing and Evaluated Chemical Substances
PICCS - Phillipines Inventory of Chemicals and Chemical Substances
AICS - Austrailia Inventory of Chemical Substances
Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Component</th>
<th>SARA 313 - Threshold Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>1.0%</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (40 CFR 61)
This product contains the following HAPs:

<table>
<thead>
<tr>
<th>Component</th>
<th>% [weight]</th>
<th>HAPs</th>
<th>VOC Chemicals</th>
<th>Class 1 Ozone Depletors</th>
<th>Class 2 Ozone Depletors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>0.1 - 1</td>
<td>X</td>
<td>X - Group 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Component</th>
<th>RQ</th>
<th>CERCLA EHS RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>5000</td>
<td></td>
<td>RQ 5,000 lb. final RQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RQ 2,270 kg. final RQ</td>
</tr>
</tbody>
</table>
## US State Regulations

### California Proposition 65

**WARNING!** This product contains a chemical known in the State of California to cause cancer. **WARNING!** This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. Impurities (<0.1%)

<table>
<thead>
<tr>
<th>Component</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylisobutyl ketone</td>
<td>Carcinogen</td>
</tr>
<tr>
<td></td>
<td>Developmental</td>
</tr>
<tr>
<td>Toluene</td>
<td>Developmental</td>
</tr>
<tr>
<td></td>
<td>Female Reproductive</td>
</tr>
<tr>
<td>Diethanolamine</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>1, 4-Dioxane</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Benzene</td>
<td>Carcinogen</td>
</tr>
<tr>
<td></td>
<td>Developmental</td>
</tr>
<tr>
<td></td>
<td>Male Reproductive</td>
</tr>
<tr>
<td>Ethylene oxide</td>
<td>Carcinogen</td>
</tr>
<tr>
<td></td>
<td>Developmental</td>
</tr>
<tr>
<td></td>
<td>Female Reproductive</td>
</tr>
<tr>
<td></td>
<td>Male Reproductive</td>
</tr>
</tbody>
</table>

### US State Right-to-Know:

<table>
<thead>
<tr>
<th>Component</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethanolamine</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Methylisobutyl ketone</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Toluene</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Diethanolamine</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1,4 -Dioxane</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Benzene</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethylene oxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
International Regulations

Mexico

Mexico - Grade
Moderate risk, Grade 2

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
D2B Toxic Materials

Canada Disclosure Lists
Components not listed are non-hazardous

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
</tr>
</tbody>
</table>

Issue Date: 2009-01-06
Revision Date: 2015-04-29
Reason for revision: Not available

For industrial use only. Refer to the safety data sheet and/or instructions for use.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet