SAFETY DATA SHEET

1. Identification

Material name: Tremco PUMA Flashing – 2 GAL
Material: 470373 802

Recommended use and restriction on use
  Recommended use: Coatings
  Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information
Tremco U.S Sealants
3735 Green Road
Beachwood OH 44122
US

Contact person: EH&S Department
Telephone: 216-292-5000
Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Physical Hazards
  Flammable liquids

Health Hazards
  Acute toxicity (Inhalation - dust and mist)
  Serious Eye Damage/Eye Irritation
  Skin sensitizer

Unknown toxicity - Health
  Acute toxicity, oral 4.75 %
  Acute toxicity, dermal 26.05 %
  Acute toxicity, inhalation, vapor 74.35 %
  Acute toxicity, inhalation, dust or mist 80.7 %

Label Elements

Hazard Symbol:
Signal Word: Danger

Hazard Statement: Extremely flammable liquid and vapor. Harmful if inhaled. Causes serious eye irritation. May cause an allergic skin reaction.

Precautionary Statements


Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTRE/doctor/ if you feel unwell. Specific treatment (see this label). Wash contaminated clothing before reuse. In case of fire: Use G to extinguish.

Storage: Store in well-ventilated place. Keep cool.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>80-62-6</td>
<td>15 - 40%</td>
</tr>
<tr>
<td>Aluminum hydroxide</td>
<td>21645-51-2</td>
<td>15 - 40%</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>7727-43-7</td>
<td>15 - 40%</td>
</tr>
<tr>
<td>Silicon dioxide, amorphous</td>
<td>112945-52-5</td>
<td>1 - 5%</td>
</tr>
</tbody>
</table>

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

4. First-aid measures
Ingestion: Rinse mouth thoroughly.

Inhalation: Move to fresh air.

Skin Contact: Get medical attention if symptoms occur. Take off immediately all contaminated clothing. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: Respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures
Personal precautions, protective equipment and emergency procedures:
Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up:
Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

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

Environmental Precautions:
Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:
Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities:
Store in a well-ventilated place. Store in a cool place.

8. Exposure controls/personal protection

Control Parameters

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>TWA</td>
<td>50 ppm</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>100 ppm</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>100 ppm 410 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Barium sulfate - Inhalable fraction.</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (02 2014)</td>
</tr>
<tr>
<td>Barium sulfate - Total dust.</td>
<td>PEL</td>
<td>15 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Barium sulfate - Respirable fraction.</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Barium sulfate - Total dust.</td>
<td>TWA</td>
<td>15 mg/m3</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td>Barium sulfate - Respirable fraction.</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>15 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td>Barium sulfate - Total dust.</td>
<td>TWA</td>
<td>50 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td>Aluminum hydroxide -</td>
<td>TWA</td>
<td>1 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
</tbody>
</table>
### Respirable fraction.

<table>
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<tr>
<th>Chemical Name</th>
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<tr>
<td>Aluminum hydroxide - Respirable fraction</td>
<td>TWA</td>
<td>15 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td>Silicon dioxide, amorphous</td>
<td>TWA</td>
<td>20 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Chemical name

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<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>TWA</td>
<td>50 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
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<td></td>
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<tr>
<td>Methyl methacrylate</td>
<td>TWA</td>
<td>50 ppm</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>100 ppm</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td>Substance</td>
<td>Exposure</td>
<td>Limit</td>
<td>Canada Source</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------</td>
<td>-------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Methyl methacrylate</td>
<td>TWA</td>
<td>50 ppm</td>
<td>205 mg/m³ [Canada, Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)]</td>
</tr>
<tr>
<td>Barium sulfate - Total dust.</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>[Canada, British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)]</td>
</tr>
<tr>
<td>Barium sulfate - Respirable fraction.</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>[Canada, British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)]</td>
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<tr>
<td>Barium sulfate</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>[Canada, Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)]</td>
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<tr>
<td>Aluminum hydroxide - Respirable.</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>[Canada, British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)]</td>
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<td>Aluminum hydroxide - Inhalable fraction.</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>[Canada, Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)]</td>
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</table>

**Appropriate Engineering Controls**

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

**Individual protection measures, such as personal protective equipment**

**General information:**

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof ventilation equipment.

**Eye/face protection:**

Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:**

Use suitable protective gloves if risk of skin contact.

**Other:**

Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

9. Physical and chemical properties

Appearance
- Physical state: liquid
- Form: liquid
- Color: Gray
- Odor: Mild petroleum/solvent
- Odor threshold: No data available.
- pH: No data available.
- Melting point/freezing point: No data available.
- Initial boiling point and boiling range: No data available.
- Flash Point: 11.5 °C 52.7 °F (ISO 1516 (Pensky-Martens (A and B Closed Cup)))
- Evaporation rate: Slower than Ether
- Flammability (solid, gas): No
- Upper/lower limit on flammability or explosive limits
  - Flammability limit - upper (%): No data available.
  - Flammability limit - lower (%): No data available.
  - Explosive limit - upper (%): No data available.
  - Explosive limit - lower (%): No data available.
- Vapor pressure: 38.7 mbar (20 °C 68 °F)
- Vapor density: Vapors are heavier than air and may travel along the floor and in the bottom of containers.
- Relative density: 1.36
- Solubility(ies)
  - Solubility in water: Practically Insoluble
  - Solubility (other): No data available.
- Partition coefficient (n-octanol/water): No data available.
- Auto-ignition temperature: No data available.
- Decomposition temperature: No data available.
- Viscosity: No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No data available.

Conditions to avoid: Heat, sparks, flames.

Incompatible Materials: Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases.

Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

### 11. Toxicological information

Information on likely routes of exposure

**Inhalation:** In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

**Skin Contact:** May cause an allergic skin reaction.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

Information on toxicological effects

**Acute toxicity (list all possible routes of exposure)**

**Oral Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**
- **Methyl methacrylate**
  - LD 50 (Rat): 7,900 mg/kg

  **Aluminum hydroxide**
  - LD 50 (Rat): > 2,000 mg/kg

  **Barium sulfate**
  - LD 50 (Rat): 364 g/kg

  **Silicon dioxide, amorphous**
  - LD 50 (Rat): 5,001 mg/kg

  **Dermal Product:** ATEmix: 7,663.21 mg/kg
Inhalation
Product: ATEmix: 2.3 mg/l

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: No data available.
Specified substance(s):
Methyl methacrylate in vivo (Rabbit): irritating after 4/24h occluded exposure  Experimental result, Weight of Evidence study
Aluminum hydroxide in vivo (Rabbit): Not classified as an Irritant Experimental result, Key study
Barium sulfate validated "in vitro" test method Not irritant Read-across from supporting substance (structural analogue or surrogate), Key study

Serious Eye Damage/Eye Irritation
Product: No data available.
Specified substance(s):
Aluminum hydroxide Rabbit, 24 hrs: Not irritating
Barium sulfate Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization
Product: No data available.

Carcinogenicity
Product: No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified
Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
Methyl methacrylate LC 50 (Fathead minnow (Pimephales promelas), 96 h): 130 mg/l Mortality

Aquatic Invertebrates
Product: No data available.

Specified substance(s):
Barium sulfate EC 50 (Tubificid worm (Tubifex tubifex), 24 h): 34.2 - 57.71 mg/l Intoxication

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
Barium sulfate

LC 1 (Oncorhynchus mykiss, 28 d): 2,813 µg/l Experimental result, Supporting study
LC 50 (Oncorhynchus mykiss, 28 d): 42,700 µg/l Experimental result, Supporting study
LC 10 (Oncorhynchus mykiss, 28 d): 9,543 µg/l Experimental result, Supporting study

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Specified substance(s):
Methyl methacrylate Log Kow: 1.38

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:
UN1866, RESIN SOLUTION, 3, PG II

CFR / DOT: 000000022492
UN1866, Resin solution, 3, PG II

IMDG:

UN1866, RESIN SOLUTION, 3, PG II

Further Information:
The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

US Federal Regulations
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>1000 lbs.</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>1000 lbs.</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Fire Hazard
Immediate (Acute) Health Hazards

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<table>
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<td>1000 lbs.</td>
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</tbody>
</table>

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Aluminum hydroxide</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Silicon dioxide, amorphous</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td></td>
</tr>
</tbody>
</table>

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.
US State Regulations

**US. California Proposition 65**
No ingredient regulated by CA Prop 65 present.

**US. New Jersey Worker and Community Right-to-Know Act**
**Chemical Identity**
- Methyl methacrylate
- Barium sulfate

**US. Massachusetts RTK - Substance List**
**Chemical Identity**
- Methyl methacrylate
- Barium sulfate
- Silicon dioxide, amorphous

**US. Pennsylvania RTK - Hazardous Substances**
**Chemical Identity**
- Methyl methacrylate
- Barium sulfate
- Silicon dioxide, amorphous

**US. Rhode Island RTK**
**Chemical Identity**
- Methyl methacrylate

International regulations

**Montreal protocol**
not applicable

**Stockholm convention**
not applicable

**Rotterdam convention**
not applicable

**Kyoto protocol**
not applicable

**VOC:** When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:
0 g/l

Regulatory VOC (less water and exempt solvent) : 348 g/l
VOC Method 310 : 25.65 %
**Inventory Status:**

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia AICS</td>
<td>One or more components in this product are not listed on or exempt from the</td>
</tr>
<tr>
<td>Canada DSL Inventory List</td>
<td>One or more components in this product are not listed on or exempt from the</td>
</tr>
<tr>
<td>EINECS, ELINCS or NLP</td>
<td>One or more components in this product are not listed on or exempt from the</td>
</tr>
<tr>
<td>Japan (ENCS) List</td>
<td>One or more components in this product are not listed on or exempt from the</td>
</tr>
<tr>
<td>China Inv. Existing Chemical Substances</td>
<td>One or more components in this product are not listed on or exempt from the</td>
</tr>
<tr>
<td>Korea Existing Chemicals Inv. (KECI)</td>
<td>All components in this product are listed on or exempt from the Inventory.</td>
</tr>
<tr>
<td>Canada NDSL Inventory</td>
<td>One or more components in this product are not listed on or exempt from the</td>
</tr>
<tr>
<td>Philippines PICCS</td>
<td>One or more components in this product are not listed on or exempt from the</td>
</tr>
<tr>
<td>New Zealand Inventory of Chemicals</td>
<td>One or more components in this product are not listed on or exempt from the</td>
</tr>
<tr>
<td>Japan ISHL Listing</td>
<td>One or more components in this product are not listed on or exempt from the</td>
</tr>
<tr>
<td>Japan Pharmacopoeia Listing</td>
<td>One or more components in this product are not listed on or exempt from the</td>
</tr>
<tr>
<td>US TSCA Inventory</td>
<td>All components in this product are listed on or exempt from the Inventory.</td>
</tr>
</tbody>
</table>

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

- **Revision Date:** 02/17/2017
- **Version #:** 2.0
- **Further Information:** No data available.
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