1. Product and Company Identification

Product Name: MUCINEX® FAST-MAX™ Adult Caplets - Severe Congestion & Cold
CAS #: Mixture

This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).

This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.

Product Use: Pain Reliever/Fever Reducer, Cough Suppressant, Expectorant, Nasal Decongestant

Distributed by: Reckitt Benckiser
Morris Corporate Center IV
399 Interpace Parkway
P.O. Box 225
Parsippany, NJ 07054-0225

In Case of Emergency: 1-800-338-6167
Transportation Emergencies: 24 Hour Number:
North America: CHEMTREC: 1-800-424-9300
Outside North America: 1-703-527-3887

LEGEND

<table>
<thead>
<tr>
<th>HMIS/NFPA</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>
2. Hazards Identification

Emergency overview
This product is regulated by the US FDA as an over-the-counter, monograph drug.

Liver warning: This product contains acetaminophen. Severe liver damage may occur if you take:
* more than 12 caplets in 24 hours, which is the maximum daily amount.
* with other drugs containing acetaminophen.
* 3 or more alcoholic drinks daily while using this product.

Do not use with any other drug containing acetaminophen (prescription or nonprescription). If you are not sure whether a drug contains acetaminophen, ask a doctor or pharmacist.

Do not use if you are now taking a prescription monoamine oxidase inhibitor (MAOI) (certain drugs for depression, psychiatric or emotional conditions, or Parkinson's disease), or for 2 weeks after stopping the MAOI drug. If you do not know if your prescription drug contains an MAOI, ask a doctor or pharmacist before taking the product.

Ask a doctor before use if you have:
* Liver disease, heart disease, diabetes, high blood pressure, thyroid disease, trouble urinating due to an enlarged prostate gland, persistent or chronic cough such as occurs with smoking, asthma, chronic bronchitis or emphysema, cough that occurs with too much phlegm (mucus).

Ask a doctor or pharmacist before use if you are taking the blood thinning drug warfarin. When using this product do not use more than directed.

Stop use and ask a doctor if:
* Nervousness, dizziness or sleeplessness occur.
* Pain, nasal congestion or cough gets worse or lasts more than 7 days.
* Fever gets worse or lasts more than 3 days.
* Redness or swelling is present.
* New symptoms occur.

If pregnant or breast feeding, ask a health professional before use.
KEEP OUT OF REACH OF CHILDREN.

Overdose warning: Taking more than the recommended dose (overdose) may cause liver damage. In case of overdose, get medical help or contact a Poison Control Center right away (1-800-222-1222). Quick medical attention is critical for adults as well as for children even if you do not notice any signs of symptoms.

Potential short term health effects

Routes of exposure
Eye, Skin contact, Inhalation, Ingestion.

Eyes
No risks anticipated in normal use. Exposure to dusts from broken tablets may cause irritation.

Skin
No risks anticipated in normal use. Prolonged skin exposure to dusts from broken tablets may cause irritation.

Inhalation
No risks anticipated in normal use. Exposure to dusts from broken tablets may cause respiratory tract irritation.

Ingestion
No risks anticipated in normal use. Avoid occupational ingestion.

Target organs
Eyes. Respiratory system. Skin.

Chronic effects
The finished product is not expected to have chronic health effects.

Signs and symptoms
May cause irritation.

OSHA Regulatory Status
This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects
See section 12.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetaminophen</td>
<td>103-90-2</td>
<td>20 - 40</td>
</tr>
<tr>
<td>Cellulose</td>
<td>9004-34-6</td>
<td>20 - 40</td>
</tr>
<tr>
<td>Guaifenesin</td>
<td>93-14-1</td>
<td>20 - 40</td>
</tr>
<tr>
<td>Dextromethorphan hydrobromide</td>
<td>6700-34-1</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Phenylephrine hydrochloride</td>
<td>61-76-7</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Titanium oxide</td>
<td>13463-67-7</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>
4. First Aid Measures

First aid procedures

Eye contact
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin contact
In the event of occupational skin contact, wash contaminated area thoroughly.

Inhalation
Move person to non-contaminated air. Call a physician if symptoms develop or persist.

Ingestion
In the event of occupational ingestion, seek medical advice. Induction of vomiting is not a recommended first-aid procedure.

Notes to physician
Treat patient symptomatically.

General advice
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties
Not flammable by OSHA criteria.
Dusts may form an explosive mixture with air.

Extinguishing media
Suitable extinguishing media

Unsuitable extinguishing media
Not available

Protection of firefighters
Specific hazards arising from the chemical
Not available

Protective equipment for firefighters
Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products
May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

Explosion data
Sensitivity to mechanical impact
Not available

Sensitivity to static discharge
Not available

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions
Do not discharge into lakes, streams, ponds or public waters.
Inform the relevant authorities if the product has caused environmental pollution.

Methods for containment
Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up
Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling
Tamper evident: do not use if outer package is opened or blister is torn or broken.
Use good industrial hygiene practices in handling this material.
Avoid contact with skin and clothing.
Avoid contact with eyes.
Keep container tightly closed.
Use only with adequate ventilation.
Wash thoroughly after handling.
Avoid breaking or crushing tablets.

Storage
Store at 15-30°C (59-86°F).
Store in a closed container away from incompatible materials.
Protect from direct sunlight.
Keep out of reach of children.
# 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acetaminophen</strong></td>
<td><strong>Exposure Limits</strong></td>
</tr>
<tr>
<td></td>
<td><strong>ACGIH-TLV</strong></td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td><strong>OSHA-PEL</strong></td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Cellulose</strong></td>
<td><strong>ACGIH-TLV</strong></td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td><strong>OSHA-PEL</strong></td>
</tr>
<tr>
<td></td>
<td>TWA: 15 mg/m³</td>
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<tr>
<td><strong>Dextromethorphan hydrobromide</strong></td>
<td><strong>ACGIH-TLV</strong></td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td><strong>OSHA-PEL</strong></td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Guaifenesin</strong></td>
<td><strong>ACGIH-TLV</strong></td>
</tr>
<tr>
<td></td>
<td>Not established</td>
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<tr>
<td></td>
<td><strong>OSHA-PEL</strong></td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Phenylephrine hydrochloride</strong></td>
<td><strong>ACGIH-TLV</strong></td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td><strong>OSHA-PEL</strong></td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Titanium oxide</strong></td>
<td><strong>ACGIH-TLV</strong></td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td><strong>OSHA-PEL</strong></td>
</tr>
<tr>
<td></td>
<td>TWA: 15 mg/m³</td>
</tr>
</tbody>
</table>

**Engineering controls**

**Personal protective equipment**

Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.

- **Eye / face protection**: No special requirements under normal use conditions. Emergency responders should wear full eye and face protection.
- **Hand protection**: No special requirements under normal use conditions. Emergency responders should wear impermeable gloves.
- **Skin and body protection**: As required by employer code.
- **Respiratory protection**: No special requirements under normal use conditions. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.
- **General hygiene considerations**: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

# 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Tablet</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Red</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Tablets</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not available</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity
Accumulation of dust, static discharge, sparks, high temperatures.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
Do not mix with other chemicals. This product may react with oxidizing agents.

Incompatible materials
Caustics.

Hazardous decomposition products
May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetaminophen</td>
<td>Not available</td>
</tr>
<tr>
<td>Cellulose</td>
<td>Not available</td>
</tr>
<tr>
<td>Dextromethorphan hydrobromide</td>
<td>Not available</td>
</tr>
<tr>
<td>Guaifenesin</td>
<td>Not available</td>
</tr>
<tr>
<td>Phenylephrine hydrochloride</td>
<td>Not available</td>
</tr>
<tr>
<td>Titanium oxide</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetaminophen</td>
<td>2404 mg/kg rat; 338 mg/kg mouse</td>
</tr>
<tr>
<td>Cellulose</td>
<td>5000 mg/kg rat Dextromethorphan</td>
</tr>
<tr>
<td>hydrobromide</td>
<td>350 mg/kg rat; 165 mg/kg mouse</td>
</tr>
<tr>
<td>Guaifenesin</td>
<td>1510 mg/kg rat; 690 mg/kg mouse</td>
</tr>
<tr>
<td>Phenylephrine hydrochloride</td>
<td>350 mg/kg rat; 120 mg/kg mouse</td>
</tr>
<tr>
<td>Titanium oxide</td>
<td>24000 mg/kg rat</td>
</tr>
</tbody>
</table>

Effects of acute exposure

Eye
No risks anticipated in normal use. Exposure to dusts from broken tablets may cause irritation.

Skin
No risks anticipated in normal use. Prolonged skin exposure to dusts from broken tablets may cause irritation.

Inhalation
No risks anticipated in normal use. Exposure to dusts from broken tablets may cause respiratory tract irritation.

Ingestion
No risks anticipated in normal use. Avoid occupational ingestion.

Sensitization
The finished product is not expected to have chronic health effects.
Chronic effects: The finished product is not expected to have chronic health effects.

Carcinogenicity: The finished product is not expected to have chronic health effects.

Mutagenicity: The finished product is not expected to have chronic health effects.

Reproductive effects: The finished product is not expected to have chronic health effects.

Teratogenicity: The finished product is not expected to have chronic health effects.

Name of Toxicologically Synergistic Products: Not available

12. Ecological Information

Ecotoxicity: See below

<table>
<thead>
<tr>
<th>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetaminophen 103-90-2 96 Hr LC50 Pimephales promelas: 814 mg/L [flow-through]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ecotoxicity - Water Flea - Acute Toxicity Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetaminophen 103-90-2 48 Hr EC50 Daphnia magna: 6.1 - 14 mg/L</td>
</tr>
</tbody>
</table>

Persistence / degradability: Not available

Bioaccumulation / accumulation: Not available

Mobility in environmental media: Not available

Environmental effects: Not available

Aquatic toxicity: Not available

Partition coefficient: Not available

Chemical fate information: Not available

13. Disposal Considerations

Disposal instructions: Dispose in accordance with all applicable regulations. Do not flush to surface water or sanitary sewer systems.

Waste from residues / unused products: Not available

Contaminated packaging: Not available

14. Transport Information

UN/ID N.o.: Not applicable

U.S. Department of Transportation (DOT): Classification: Not regulated

<table>
<thead>
<tr>
<th>Proper shipping name</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. DOT Hazard Class</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
</tr>
<tr>
<td>DOT RQ (lbs)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ERG NO</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
Transportation of Dangerous Goods (TDG - Canada): Classification: Not regulated

Proper shipping name  Not applicable
Status  Not applicable
Packing group  Not applicable

IMDG (Marine Transport): Classification: Not regulated

Proper shipping name  Not applicable
Class  Not applicable
Subsidiary Risk  Not applicable
Packing group  Not applicable
IMDG Page  Not applicable
Marine pollutant  Not applicable
EMS  Not applicable
MFAG  Not applicable
Maximum Quantity  Not applicable

IATA/ICAO (Air): Classification: Not regulated

Proper shipping name  Not applicable
Class  Not applicable
Subsidiary Risk:  Not applicable
Packing group  Not applicable
Maximum Quantity  Not applicable

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical  Yes

US Federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components of this product are either on the Toxic Substances Control Act list (TSCA) or exempt.

CERCLA (Superfund) reportable quantity
None
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
Yes

Clean Air Act (CAA)
Not available

Clean Water Act (CWA)
Not available

State regulations

U.S. - Illinois - Toxic Air Contaminant Carcinogens
Titanium oxide 13463-67-7 IARC 2B Carcinogen

U.S. - Massachusetts - Right To Know List
Cellulose 9004-34-6 Present
Titanium oxide 13463-67-7 Present

U.S. - Minnesota - Hazardous Substance List
Cellulose 9004-34-6 Present (dust, paper fiber)
Titanium oxide 13463-67-7 Present (dust)

U.S. - New Jersey - Right to Know Hazardous Substance List
Cellulose 9004-34-6 sn 3227
Titanium oxide 13463-67-7 sn 1861

U.S. - Pennsylvania - RTK (Right to Know) List
Cellulose 9004-34-6 Present
Titanium oxide 13463-67-7 Present

U.S. - Rhode Island - Hazardous Substance List
Cellulose 9004-34-6 Toxic
Titanium oxide 13463-67-7 Toxic

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. Other Information

Disclaimer
This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information
MUCINEX® FAST-MAX™ Adult Caplets - Severe Congestion & Cold - 20 ct. 0387966v2.0
MUCINEX® FAST-MAX™ Adult Caplets - Severe Congestion & Cold - 30 ct. 0387966v2.0

Issue date
11-Sep-2012

Effective date
01-Sep-2012

Prepared by
Reckitt Benckiser Regulatory Department 800-333-3899

Other information
For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.