MUCINEX® FAST-MAX™ Maximum Strength Day & Night Packets MSDS

Enclosed:

MSDS for MUCINEX® FAST-MAX™ Severe Cold Packets

&

MSDS for MUCINEX® FAST-MAX™ Night Time Cold & Flu Packets



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name CAS

MUCINEX® FAST-MAX™ Maximum Strength Severe Cold Packets

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

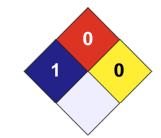
Reckitt Benckiser Morris Corporate Center IV

399 Interpace Parkway 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

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





2. Hazards Identification

Emergency overview

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

WARNINGS: Liver warning: This product contains acetaminophen. Severe liver damage may occur if you take:

*more than 6 packets in 24 hours, which is the maximum daily amount. *with other drugs containing acetaminophen. *3 or more alcoholic drinks daily while using this product.

Sore throat warning: If sore throat is severe, persists for more than 2 days, is accompanied or followed by fever, headache, rash, swelling, nausea, or vomiting, consult a doctor promptly. 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, high blood pressure, thyroid disease, diabetes, 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); a sodium-reduced diet.

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. *Cough comes back, or occurs with fever, rash or headache that lasts. These could be signs of a serious condition.

If pregnant or breast feeding, ask a health professional before use.

Do not use for children under 12 years of age.

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. Quick medical attention is critical for adults as well as for children even if you do not notice any signs of symptoms.

61-76-7

0.1 - 1

Potential short term health effects

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

Eyes No risks anticipated in normal use.

Skin No risks anticipated in normal use.

Inhalation No risks anticipated in normal use.

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

Target organs Eyes. Respiratory system. Skin.

Chronic effectsThe 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.

Phenylephrine hydrochloride

3. Composition/Information on Ingredients Components CAS# Percent alpha-D-Glucopyranoside, beta-D-fructofuranosyl 57-50-1 40 - 60 Acetaminophen 103-90-2 10 - 30 Citric Acid 77-92-9 10 - 20 Sodium citrate 10 - 20 6132-04-3 Guaifenesin 93-14-1 2.5 - 10Dextromethorphan hydrobromide 6700-34-1 0.1 - 1

4. First Aid Measures First aid procedures

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

Remove any contact lenses and continue to rinse with water.

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

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

In the event of occupational ingestion, seek medical advice. Induction of vomiting is not a Ingestion

recommended first-aid procedure. Rinse mouth out with water.

Treat patient symptomatically. Notes to physician

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.

Extinguishing media

Treat for surrounding material. Suitable extinguishing

media Unsuitable extinguishing

Not available media

Protection of firefighters

Not available Specific hazards arising

from the chemical Protective equipment and

Firefighters should wear full protective clothing including self contained breathing apparatus.

precautions for firefighters **Hazardous combustion**

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

products

Explosion data Sensitivity to mechanical

impact

Sensitivity to static

discharge

Not available.

Not available.

6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch Personal precautions

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.

Advise authorities if product has penetrated drains, sewers or water pipes.

Methods for containment

Prevent entry into waterways, sewers, basements or confined areas.

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect Methods for cleaning up 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 Use good industrial hygiene practices in handling this material.

Avoid contact with skin and clothing.

Avoid contact with eyes.

Use only with adequate ventilation. Wash thoroughly after handling.

Store between 20°C and 25°C (68°F-77°F). Storage

Do not refrigerate. Keep out of reach of children.

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8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	туре	value	
alpha-D-Glucopyranoside,	TWA	10 mg/m3	

(CAS 57-50-1)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form	
alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS 57-50-1)	PEL	5 mg/m3	Respirable fraction.	
,		15 mg/m3	Total dust.	

Exposure limits There are no established ACGIH or OSHA PEL exposure limits for the hazardous chemicals listed

in section 3 of the MSDS.

Engineering controls General ventilation normally adequate.

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.

Avoid contact with eyes.

9. Physical and Chemical Properties

Appearance Powder Pale yellow Color Powder **Form** Odor Honey / Lemon **Odor threshold** Not available. Solid. Physical state Not available. pН Not available. Freezing point **Boiling point** Not available. Pour point Not available. Not available **Evaporation rate** Not available. Flash point **Auto-ignition temperature** Not available. Flammability limits in air, Not available. upper, % by volume Flammability limits in air, Not available. lower, % by volume Vapor pressure Not available. Not available. Vapor density Specific gravity Not available.

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Partition coefficient

Not available.

(n-octanol/water)

Solubility (water)SolubleRelative densityNot available.ViscosityNot available.

VOC Not available
Percent volatile Not available

10. Stability and Reactivity

Reactivity This product may react with strong oxidizing agents.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Extreme heat and freezing temperatures.

Do not mix with incompatible materials.

Incompatible materials Caustics

Hazardous decomposition

products

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

11. Toxicological Information

Toxicological data

Components Species Test Results

Acetaminophen (CAS 103-90-2)

Acute

Oral

 LD50
 Mouse
 338 mg/kg

 Rat
 2404 mg/kg

LC50

Not available.

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS 57-50-1)

Acute

Oral

LD50 Rat

29700 mg/kg

350 mg/kg

LC50

Not available.

Citric Acid (CAS 77-92-9)

Acute

Oral

 LD50
 Mouse
 5040 mg/kg

 Rat
 3000 mg/kg

LC50

Not available.

Dextromethorphan hydrobromide (CAS 6700-34-1)

Acute

Oral

 LC50
 Guinea pig
 336 mg/kg

 LD50
 Mouse
 165 mg/kg

Rat

LC50

Not available.

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Components	Species	Test Results	
Guaifenesin (CAS 93-14-1)			
Acute			
O <i>ral</i> LD50	Mouse	690 mg/kg	
	Rabbit	2553 mg/kg	
	Rat	1510 mg/kg	
LC50			
Not available.			
Phenylephrine hydrochloride (CA	S 61-76-7)		
Acute			
Oral			
LD50	Mouse	120 mg/kg	
	Rat	350 mg/kg	
LC50			
Not available.			
Sodium citrate (CAS 6132-04-3)			
Acute			
Oral			
LD50		> 8000 mg/kg	
LC50			
Not available.			
Effects of acute exposure			
Eye contact	No risks anticipated in normal use.		
Skin contact	No risks anticipated in normal use.		
Inhalation	No risks anticipated in normal use.		
Ingestion	No risks anticipated in normal use. Avoid occupational ingestion.		
Sensitization	The finished product is not expected	I to have chronic health effects.	
Chronic effects	The finished product is not expected	I to have chronic health effects.	
Carcinogenicity	The finished product is not expected	I to have chronic health effects.	
Mutagenicity	The finished product is not expected		
Reproductive effects	The finished product is not expected		
Teratogenicity	The finished product is not expected		
Name of Toxicologically Synergistic Products	Not available.		
	12. Ecological In	formation	

Ecotoxicity	See below		
•	Oce below		
Ecotoxicological data Components Acetaminophen (CAS 103-90-2)		Species	Test Results
Crustacea	EC50	Daphnia	10.05 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	6.1 - 14 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	814 mg/l, 96 hours
Citric Acid (CAS 77-92-9)			
Acute			
Crustacea	EC50	Daphnia magna	120 mg/l, 72 hr

Components **Species Test Results**

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) 1516 mg/l, 96 hr

Sodium citrate (CAS 6132-04-3)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 655 - 825.9 mg/l, 48 hours

Persistence and degradability Not available. Bioaccumulation/ Not available

Accumulation

Not available. Mobility in environmental

media

Not available. **Environmental effects** Not available. **Aquatic toxicity**

Partition coefficient

alpha-D-Glucopyranoside, beta-D-fructofuranosyl -3.7

Not available. Chemical fate information

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

IATA/ICAO (Air)

Not regulated as dangerous goods.

IMDG (Marine Transport)

Not regulated as dangerous goods.

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 Yes

hazardous chemical

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations**

Standard, 29 CFR 1910.1200.

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

exempt.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

State regulations

This product is not subject to warning labeling under the California Proposition 65 regulation.

US - Minnesota Haz Subs: Listed substance

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS Listed.

57-50-1)

US - Texas Effects Screening Levels: Listed substance

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS Listed.

57-50-1)

Citric Acid (CAS 77-92-9)

Guaifenesin (CAS 93-14-1)

Sodium citrate (CAS 6132-04-3)

Listed.

Listed.

US. Massachusetts RTK - Substance List

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS Listed.

57-50-1)

US. Pennsylvania RTK - Hazardous Substances

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS Listed.

57-50-1)

US. Rhode Island RTK

Not regulated.

Country(s) or region Inventory name

On inventory (yes/no)*

No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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™ Maximum Strength Severe Cold Packets - 3000267v1.0

Issue date 17-March-2014
Effective date 15-March-2014

Prepared by Reckitt Benckiser Regulatory Department Phone: 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.



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name CAS #

MUCINEX® FAST-MAX™ Maximum Strength Night Time Cold & Flu Packets

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, Nasal Decongestant

Distributed by

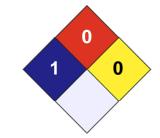
Reckitt Benckiser Morris Corporate Center IV 399 Interpace Parkway

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

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





2. Hazards Identification

Emergency overview

This product is regulated by the US FDA as an over-the-counter, monograph drug. WARNINGS: Liver warning: This product contains acetaminophen. Severe liver damage may

occur if you take:

*more than 6 packets in 24 hours, which is the maximum daily amount. *with other drugs containing acetaminophen. *3 or more alcoholic drinks daily while using this product. Sore throat warning: If sore throat is severe, persists for more than 2 days, is accompanied or followed by fever, headache, rash, swelling, nausea, or vomiting, consult a doctor promptly. 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, high blood pressure, thyroid disease, diabetes, 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); a sodium-reduced diet.

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

Excitability may occur, especially in children Marked drowsiness may occur. Alcohol, sedatives and tranquilizers may increase drowsiness. Avoid alcoholic drinks. Be careful when driving a motor vehicle or operating machinery.

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. *Cough comes back, or occurs with fever, rash or headache that lasts. These could be signs of a serious condition.

If pregnant or breast feeding, ask a health professional before use.

Do not use for children under 12 years of age.

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. 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.

EyesNo risks anticipated in normal use.SkinNo risks anticipated in normal use.InhalationNo risks anticipated in normal use.

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

Target organs Eyes. Respiratory system. Skin.

Chronic effectsThe 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 omponents

Components	CA5 #	Percent	
alpha-D-Glucopyranoside, beta-D-fructofuranosyl	57-50-1	40 - 60	
Acetaminophen	103-90-2	10 - 30	
Citric Acid	77-92-9	10 - 20	
Sodium citrate	6132-04-3	10 - 20	
Diphenhydramine hydrochloride	147-24-0	0.1 - 1	
Phenylephrine hydrochloride	61-76-7	0.1 - 1	

4. First Aid Measures

First aid procedures

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

Remove any contact lenses and continue to rinse with water.

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

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

In the event of occupational ingestion, seek medical advice. Induction of vomiting is not a Ingestion

recommended first-aid procedure. Rinse mouth out with water.

Notes to physician

General advice

Treat patient symptomatically.

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.

Extinguishing media

Suitable extinguishing media

Treat for surrounding material.

Unsuitable extinguishing

media

Not available

Protection of firefighters

Specific hazards arising

from the chemical

Not available

Protective equipment and precautions for firefighters

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

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch Personal precautions

damaged containers or spilled material unless wearing appropriate protective clothing. Keep

Firefighters should wear full protective clothing including self contained breathing apparatus.

people away from and upwind of spill/leak.

Environmental precautions Do not discharge into lakes, streams, ponds or public waters.

Advise authorities if product has penetrated drains, sewers or water pipes.

Methods for containment

Prevent entry into waterways, sewers, basements or confined areas.

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect Methods for cleaning up 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 Use good industrial hygiene practices in handling this material.

Avoid contact with skin and clothing.

Avoid contact with eyes.

Use only with adequate ventilation. Wash thoroughly after handling.

Store between 20°C and 25°C (68°F-77°F). Storage

Do not refrigerate. Keep out of reach of children.

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8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value
alpha-D-Glucopyranoside,	TWA	10 mg/m3
beta-D-fructofuranosyl		

(CAS 57-50-1)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS 57-50-1)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.

There are no established ACGIH or OSHA PEL exposure limits for the hazardous chemicals listed **Exposure limits**

in section 3 of the MSDS.

Engineering controls General ventilation normally adequate.

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.

No special requirements under normal use conditions. **Hand protection**

Emergency responders should wear impermeable gloves.

As required by employer code. Skin and body protection

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

Specific gravity

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

Avoid contact with eyes.

9. Physical and Chemical Properties

Appearance Powder Pale yellow Color **Form** Powder Odor Honey / Lemon **Odor threshold** Not available. Solid. Physical state Not available. pН Not available. Freezing point **Boiling point** Not available. Pour point Not available. Not available **Evaporation rate** Not available. Flash point **Auto-ignition temperature** Not available. Flammability limits in air, Not available. upper, % by volume Flammability limits in air, Not available. lower, % by volume Vapor pressure Not available. Not available. Vapor density

Not available.

Partition coefficient

Not available.

(n-octanol/water)

Soluble

Solubility (water) Not available. Relative density Not available. **Viscosity** Not available VOC Percent volatile Not available

10. Stability and Reactivity

Reactivity

This product may react with strong oxidizing agents.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Extreme heat and freezing temperatures. Do not mix with incompatible materials.

Incompatible materials

Hazardous decomposition

products

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

11. Toxicological Information

Toxicological data

Components **Species Test Results**

Acetaminophen (CAS 103-90-2)

Acute

Oral

LD50 Mouse 338 mg/kg Rat 2404 mg/kg

LC50

Not available.

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS 57-50-1)

Acute

Oral

LD50

Rat 29700 mg/kg

LC50

Not available.

Citric Acid (CAS 77-92-9)

Acute

Oral

LD50 Mouse Rat

5040 mg/kg

3000 mg/kg

LC50

Not available.

Diphenhydramine hydrochloride (CAS 147-24-0)

Acute

Oral

LD50 Mouse

Rat

164 mg/kg

500 mg/kg

LC50

Not available.

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Components	Species		Test Results
Phenylephrine hydrochloride (CA	S 61-76-7)		
Acute			
Oral			400 //
LD50	Mouse		120 mg/kg
	Rat		350 mg/kg
LC50			
Not available.			
Sodium citrate (CAS 6132-04-3)			
Acute			
<i>Oral</i> LD50			> 8000 mg/kg
			> 6000 mg/kg
LC50 Not available.			
Effects of acute exposure			
Eye contact		pated in normal use.	
Skin contact		pated in normal use.	
Inhalation		pated in normal use.	
Ingestion		pated in normal use. Avoid occupational	•
Sensitization	•	product is not expected to have chronic he	
Chronic effects	•	product is not expected to have chronic he	
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. Not available.		
Name of Toxicologically Synergistic Products	Not available.		
		12. Ecological Information	
Ecotoxicity	See below		
Ecotoxicological data			
Components		Species	Test Results
Acetaminophen (CAS 103-90-2) Crustacea	EC50	Daphnia	10.05 mg/L, 48 Hours
		Барінна	10.05 Hig/L, 46 Hours
Aquatic Crustacea	EC50	Water flea (Daphnia magna)	6.1 - 14 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas	8) 814 mg/l, 96 nours
Citric Acid (CAS 77-92-9)			
<i>Acute</i> Crustacea	EC50	Daphnia magna	120 mg/l, 72 hr
Aquatic		Dapima magna	120
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	1516 mg/l, 96 hr
Sodium citrate (CAS 6132-04-3)		· · · · · · · · · · · · · · · · · · ·	-
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	655 - 825.9 mg/l, 48 hours
-			

Not available.

Not available

Persistence and degradability

Bioaccumulation/

Accumulation

Mobility in environmental

media

Not available.

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Environmental effects Not available.

Aquatic toxicity Not available.

Partition coefficient

alpha-D-Glucopyranoside, beta-D-fructofuranosyl -3.7

Chemical fate information Not available.

13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

IATA/ICAO (Air)

Not regulated as dangerous goods.

IMDG (Marine Transport)

Not regulated as dangerous goods.

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200

Yes

hazardous chemical

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.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

State regulations This product is not subject to warning labeling under the California Proposition 65 regulation.

US - Minnesota Haz Subs: Listed substance

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS Listed.

57-50-1)

US - Texas Effects Screening Levels: Listed substance

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS Listed.

57-50-1)

Citric Acid (CAS 77-92-9)

Diphenhydramine hydrochloride (CAS 147-24-0)

Sodium citrate (CAS 6132-04-3)

Listed.

Listed.

Listed.

US. Massachusetts RTK - Substance List

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS Listed. 57-50-1)

US. Pennsylvania RTK - Hazardous Substances

alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS Listed. 57-50-1)

US. Rhode Island RTK

Not regulated.

Country(s) or region Inventory name

On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Nο

*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™ Maximum Strength Night Time Cold & Flu Packets - 3002615v1.0

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Prepared by Reckitt Benckiser Regulatory Department Phone: 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.