# SAFETY DATA SHEET 

## 1. Product and company identification

Product name

Distributed by
: MUCINEX® FAST-MAX® Adult Liquid - Congestion \& Headache MUCINEX® SINUS-MAX® Adult Liquid - Max Strength Severe Congestion Relief MUCINEX® Free From Severe Congestion and Cough
: RB Health (US) LLC
Morris Corporate Center IV
399 Interpace Parkway (P.O. Box 225)
Parsippany, New Jersey 07054-0225
+1 9734042600
: 1-800-424-9300 (U.S. \& Canada) CHEMTREC
Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

Emergency telephone : 1-800-338-6167
: http://www.rbnainfo.com
: Expectorant and Analgesic.
number (Medical)
Emergency telephone number (Transport)
Website:

Product use

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS 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 regulations, and shown in Section 15 of this SDS.

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SDS #
    : D0285534 v5.0
Formulation #: : O285475 v14.0
```


## 2. Hazards identification

Classification of the
substance or mixture

GHS label elements
Hazard pictograms
: Not applicable.
Signal word
: No signal word.
Hazard statements : No known significant effects or critical hazards.
Precautionary statements

| General | $:$ Keep out of reach of children. If medical advice is needed, have product container or |
| :--- | :--- |
|  | label at hand. |
| Prevention | $:$ Not applicable. |
| Response | $:$ Not applicable. |

$\begin{array}{ll}\text { Code \# : FF0285475(D0285534 SDS \# : D0285534 v5.0 Date of issue : 11/01/2019 } \\ & \text { US }\end{array}$

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## 2. Hazards identification

| Storage | : Not applicable. |
| :--- | :--- |
| Disposal | : Not applicable. |
| Supplemental label <br> elements | $:$ None known. |
| Hazards not otherwise <br> classified | $:$ None known. |

## 3. Composition/information on ingredients

Substance/mixture

| Ingredient name | Mixture |  |
| :--- | :--- | :--- | :--- |
| Glycerol | $\%$ | CAS number |
| paracetamol | $2.5-30$ | $56-81-5$ |
| guaifenesin | $1-2.5$ | $103-90-2$ |
| phenylephrine hydrochloride | $<0.1$ | $93-14-1$ |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

| 4. First aid measures |
| :--- |
| Description of necessary first aid measures |
| Eye contact |
| : In case of contact with eyes, rinse immediately with plenty of water. If irritation persists, |
| get medical attention. |
| InhalationIn the event of any complaints or symptoms, avoid further exposure. Maintain an open <br> airway. Get medical attention if adverse health effects persist or are severe. <br> Skin contact <br> : In the event of any complaints or symptoms, avoid further exposure. Rinse skin with <br> water. Get medical attention if symptoms occur. <br> : Wash out mouth with water. Get medical attention if adverse health effects persist or <br> are severe. Do not induce vomiting. If affected person is conscious, give plenty of water <br> to drink. |

Most important symptoms/effects, acute and delayed

| Potential acute health effects |
| :--- | :--- |


| Eye contact | $:$ |
| :--- | :--- |
| Inhalation | Irritating to eyes. |
| Skin contact | No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |
|  |  | Nignificant effects or critical hazards.

## Over-exposure signs/symptoms

| Eye contact | : No specific data. |
| :--- | :--- |
| Inhalation | : No specific data. |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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        ) US
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## 4. First aid measures

| Specific treatments | : No specific treatment. |
| :--- | :--- |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. |

## See toxicological information (Section 11)

## 5. Fire-fighting measures

## Extinguishing media

| Suitable extinguishing <br> media | $:$ Use an extinguishing agent suitable for the surrounding fire. |
| :--- | :--- |
| Unsuitable extinguishing <br> media | $:$ None known. |
| Specific hazards arising <br> from the chemical <br> Hazardous thermal <br> decomposition products | $:$ No specific fire or explosion hazard. |

Special protective actions for fire-fighters

Special protective equipment for fire-fighters
: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

| For non-emergency | $:$No action shall be taken involving any personal risk or without suitable training. <br> personnel |
| :--- | :--- |
|  | Evacuate surrounding areas. Keep unnecessary and unprotected personnel from |
|  | entering. Do not touch or walk through spilled material. Put on appropriate personal |
|  | protective equipment. |

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

| Environmental precautions | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| :---: | :---: |
| Methods and materials for containment and cleaning up |  |
| Small spill | : Stop leak if without risk. Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. |
| Large spill | : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. <br> See Section 1 for emergency contact information. <br> See Section 8 for information on appropriate personal protective equipment. <br> See section 13 for waste disposal information. |

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## 7. Handling and storage

## Precautions for safe handling

: Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, : Store between the following temperatures: -20 to $30^{\circ} \mathrm{C}\left(-4\right.$ to $\left.86^{\circ} \mathrm{F}\right)$. Store in including any incompatibilities accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

## Control

Occupational exposure limits

| Ingredient name | Exposure limits |
| :--- | :--- |
| Glycerol | OSHA PEL 1989 (United States, 3/1989). |
|  | TWA: $5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Respirable |
|  | fractionTWA: $10 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Total dust <br> TWHA PEL (United States, 2/2013). <br>  <br>  <br>  <br>  <br>  <br>  <br> TWA: $5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Respirable <br> fraction <br> TWA: $15 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Total dust |


| Appropriate engineering <br> controls | $:$ <br> Environmental exposure <br> controls |
| :--- | :--- |
| Good general ventilation should be sufficient to control worker exposure to airborne <br> contaminants. |  |
| Individual protection measures |  | | Emissions from ventilation or work process equipment should be checked to ensure |
| :--- |
| they comply with the requirements of environmental protection legislation. In some |
| cases, fume scrubbers, filters or engineering modifications to the process equipment |
| will be necessary to reduce emissions to acceptable levels. |

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## 8. Exposure controls/personal protection

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection : None required. However, use of adequate ventilation is good industrial practice.

## 9. Physical and chemical properties

| Appearance |  |
| :---: | :---: |
| Physical state | : Liquid. |
| Color | : Blue - Green. |
| Odor | : Not available. |
| Odor threshold | Not available. |
| pH | 4.5 to 4.9 [Conc. (\% w/w): 100\%] |
| Melting point | Not available. |
| Boiling point | : Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Lower and upper explosive (flammable) limits | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | : 1.07 to 1.13 |
| Solubility | Not available. |
| Partition coefficient: $\mathbf{n}$ octanol/water | : Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Dynamic (room temperature): 55 to $165 \mathrm{mPa} \cdot \mathrm{s}$ ( 55 to 165 cP ) |
| Flow time (ISO 2431) | : Not available. |

## 10. Stability and reactivity

Reactivity
Chemical stability
Possibility of hazardous reactions
Conditions to avoid : No specific data.
Incompatible materials
Hazardous decomposition products
: The product is stable. not be produced.
: No specific test data related to reactivity available for this product or its ingredients.
: Under normal conditions of storage and use, hazardous reactions will not occur.
: Do not use with other products.
: Under normal conditions of storage and use, hazardous decomposition products should

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## 11. Toxicological information

## Information on toxicological effects

## Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
| :--- | :--- | :--- | :--- | :--- |
| Glycerol | LD50 Oral | Rat | $12600 \mathrm{mg} / \mathrm{kg}$ | - |
| paracetamol | LD50 Oral | Rat | $1944 \mathrm{mg} / \mathrm{kg}$ | - |
| guaifenesin | Rat | $1510 \mathrm{mg} / \mathrm{kg}$ | - |  |
| phenylephrine hydrochloride | LD50 Oral | LD50 Oral | Rat | $350 \mathrm{mg} / \mathrm{kg}$ |

Conclusion/Summary : Based on available data, the classification criteria are not met.

## Irritation/Corrosion

Not available.

## Conclusion/Summary

| Skin | $:$ No known significant effects or critical hazards. |
| :--- | :--- |
| Eyes | : Based on Calculation method: Irritating to eyes. |
| Respiratory | : No known significant effects or critical hazards. |

## Sensitization

Not available.

## Conclusion/Summary

Skin : No known significant effects or critical hazards.
Respiratory : No known significant effects or critical hazards.

## Mutagenicity

Not available.
Conclusion/Summary : No known significant effects or critical hazards.

## Carcinogenicity

Not available.
Conclusion/Summary : No known significant effects or critical hazards.
Classification

| Product/ingredient name | OSHA | IARC | NTP |
| :--- | :--- | :--- | :--- |
| paracetamol | - | 3 | - |

## Reproductive toxicity

Not available.
Conclusion/Summary : No known significant effects or critical hazards.

## Teratogenicity

Not available.
Conclusion/Summary : No known significant effects or critical hazards.

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

Conforms to USDOL OSHA 29CFR 1910.1200 HAZCOM

## D0285534 v5.0 <br> 11. Toxicological information

## Aspiration hazard

Not available.

| Information on the likely <br> routes of exposure | $:$ Not available. |
| :--- | :--- | :--- |
| Potential acute health effects |  |$\quad$| Eye contact | : Irritating to eyes. |
| :--- | :--- |
| Inhalation | No known significant effects or critical hazards. |
| Skin contact | No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | : No specific data. |
| :--- | :--- |
| Inhalation | : No specific data. |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |

Delayed and immediate effects and also chronic effects from short and long term exposure
Short term exposure

| Potential immediate <br> effects | : Not available. |
| :--- | :--- |
| Potential delayed effects <br> Long term exposure | : Not available. |
| Potential immediate <br> effects | : Not available. |
| Potential delayed effects | : Not available. |

## Potential chronic health effects

Not available.

| Conclusion/Summary | : No known significant effects or critical hazards. |
| :--- | :--- |
| General | : No known significant effects or critical hazards. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| Fertility effects | : No known significant effects or critical hazards. |

## Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
| :--- | :--- |
| Oral | $36711.8 \mathrm{mg} / \mathrm{kg}$ |

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## 12. Ecological information

## Toxicity

| Product/ingredient name | Result | Species | Exposure |
| :--- | :--- | :--- | :--- |
| Glycerol | Acute LC50 $10000 \mathrm{mg} / /$ Fresh water | Daphnia | 24 hours |
| paracetamol | Acute LC50 $5000 \mathrm{mg} / \mathrm{Fresh}$ water | Fish | 24 hours |
|  | Acute EC50 $4.8 \mathrm{mg} / \mathrm{I}$ Fresh water | Daphnia - Daphnia magna - | 48 hours |
|  | Acute LC50 $814000 \mu \mathrm{~g} / \mathrm{I}$ Fresh water | Neonate |  |
| Fish - Pimephales promelas | 96 hours |  |  |

## Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
| :--- | :--- | :--- | :--- | :--- |
| Glycerol | OECD 301D <br> Ready <br> Biodegradability - <br> Closed Bottle <br> Test | $92 \%-30$ days | - | - |
| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |  |
| Glycerol | - | - | Readily |  |

## Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
| :--- | :--- | :--- | :--- |
| Glycerol | -1.76 | - | low |
| paracetamol | 0.4 | 3.162 | low |
| guaifenesin | 1.39 | - | low |
| phenylephrine hydrochloride | -0.31 | - | low |

Mobility in soil
Soil/water partition : Not available. coefficient (Koc)

Other adverse effects
: No known significant effects or critical hazards.

## 13. Disposal considerations

## Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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## 14. Transport information

| Regulatory <br> information | UN number | Proper shipping <br> name | Classes | PG* | Label | Additional <br> information |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| DOT Classification | Not <br> Regulated | Not applicable. | Not available. | - | - |  |
| TDG Classification | Not <br> Regulated | Not applicable. | Not available. | - |  | - |
| Mexico <br> Classification | Not <br> Regulated | Not applicable. | Not available. | - |  | - |
| IMDG Class | Not <br> Regulated | Not applicable. | Not available. | - |  | - |
| IATA-DGR Class | Not <br> Regulated | Not applicable. | Not available. | - |  | - |

 upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

PG*: Packing group

## 15. Regulatory information

## U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112<br>: Not listed

(b) Hazardous Air

Pollutants (HAPs)
Clean Air Act Section 602
: Not listed
Class I Substances
Clean Air Act Section 602
: Not listed
Class II Substances
DEA List I Chemicals : Not listed
(Precursor Chemicals)
DEA List II Chemicals : Not listed
(Essential Chemicals)
SARA 302/304
Composition/information on ingredients

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## 15. Regulatory information

No products were found.
SARA 304 RQ : Not applicable.
SARA 311/312
Classification
: Not applicable.

## Composition/information on ingredients

| Name | $\%$ | Fire <br> hazard | Sudden <br> release of <br> pressure | Reactive | Immediate <br> (acute) <br> health <br> hazard | Delayed <br> (chronic) <br> health <br> hazard |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| paracetamol <br> guaifenesin <br> phenylephrine hydrochloride | $2.5-5$ <br> $1-2.5$ <br> $<0.1$ | Yes. <br> No. <br> No. | No. <br> No. <br> No. | No. <br> No. <br> No. | Yes. <br> Yes. <br> Yes. | No. <br> No. <br> No. |

## State regulations

Massachusetts : The following components are listed: GLYCERINE MIST
New York : None of the components are listed.
New Jersey
Pennsylvania : The following components are listed: 1,2-PROPANEDIOL; 1,2,3-PROPANETRIOL

## Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).
Canadian lists
Canadian NPRI : None of the components are listed.
CEPA Toxic substances
Canada inventory : All components are listed or exempted.

## Label elements

Precautionary measures : Read label before use.
Avoid contact with eyes.
Keep out of reach of children.

## 16. Other information

## Hazardous Material

Information System (U.S.A.)

| Health | * |
| :--- | :--- |
| Flammability | 0 |
| Physical hazards | 0 |
| Personal protection | B |

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## 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS $®$ program. HMIS® is a registered mark of the National Paint \& Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.
The customer is responsible for determining the PPE code for this material.
National Fire Protection :
Association (U.S.A.)


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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the $\mathbf{7 0 4}$ systems to classify chemicals does so at their own risk.

| Key to abbreviations | : ATE = Acute Toxicity Estimate <br> BCF = Bioconcentration Factor <br> GHS = Globally Harmonized System of Classification and Labelling of Chemicals <br> IATA = International Air Transport Association <br> IBC = Intermediate Bulk Container <br> IMDG = International Maritime Dangerous Goods <br> LogPow = logarithm of the octanol/water partition coefficient <br> MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 <br> as modified by the Protocol of 1978. ("Marpol" = marine pollution) <br> UN = United Nations |
| :---: | :---: |
| Date of issue | 11/01/2019 |
| Date of previous issue | 10/11/2015 |
| Version | 5.0 |
| Prepared by | : Reckitt Benckiser India Ltd Plot No 48 Sector-32 Institutional Area Gurgaon, Haryana India - 122001 |
| Revision comments | Project gemini-change in business address on section 1 |
| $\nabla$ Indicates information that has changed from previously issued version. |  |

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## 16. Other information

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.

