

Material Safety Data Sheet

ANSI Format

Robitussin Liquid Products

Preparation Date 19-Sep-2007 Revision Date 09-Feb-2009 Revision Number 7

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Robitussin Liquid Products

Common NameNot applicableChemical NameNot applicable

Synonyms Robitussin Cough Products; Robitussin Cough and Cold Products; Robitussin Congestion

Products; Robitussin Cough, Cold and Flu Products; Robitussin Cough and Allergy Products; Robitussin Pediatric Products; Robitussin Nighttime Cough, Cold and Flu Products, Robitussin Nighttime Pediatric Cough and Cold Products, Robitussin Child Products, Extra Strength Products, Robitussin DM, Robitussin Nighttime Cough and Cold, Robitussin Cough and Cold

CF, Robitussin DM

Product Use Pharmaceutical product

Classification Analgesic, Antihistamine, Antitussive, Decongestant, Expectorant, Central Nervous System

Agent

Supplier Wyeth

P.O. Box 8299

Philadelphia, PA 19101 USA. Telephone: 1-610-688-4400

Emergency Telephone Number Chemtrec USA, Puerto Rico, Canada 1-800-424-9300

Chemtrec International 1-703-527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

This is a research material that may affect body functions

Appearance Pharmaceutical Liquid Physical State Liquid Odor Not available

Potential Physical Hazards None known

Potential Health Effects

EyesMay cause irritation.SkinNot availableInhalationNot available

Ingestion The most common effects may include allergy, gastrointestinal effects (ulcer, bleeding,

perforation), drowsiness, nervousness, excitability, dizziness, sleeplessness, pain, and cough.

May impair ability when driving a motor vehicle or operating machinery.

May cause harm to the unborn child. May cause harm to breastfed babies.

Please see Patient Package Insert for further information.

Therapeutic Target Organ(s) Nervous system, respiratory system.

Not listed by OSHA, NTP or IARC.

Potential Environmental Effects See Section 12

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name	CAS-No	Composition
Acetaminophen	103-90-2	0 - 32 mg/ml
Chlorpheniramine Maleate	113-92-8	0 - 0.4 mg/ml
Dextromethorphan HBr	125-69-9	0 - 3 mg/ml
Diphenhydramine HCI	147-24-0	0 - 1.25 mg/ml
Phenylephrine HCI	61-76-7	0 - 1 mg/ml
Guaifenesin	93-14-1	0 - 40 mg/ml
Brompheniramine Maleate	980-71-2	0 - 0.4 mg/ml
Pseudoephedrine HCl	345-78-8	0 - 6 mg/ml
Inactive Ingredients	Not applicable	Remainder

4. FIRST AID MEASURES

Eye Contact In case of contact with eyes, rinse immediately with plenty of water for 15 mintues and seek

medical advice

Skin Contact Wash off immediately with soap and plenty of water

Inhalation Artificial respiration and/or oxygen may be necessary

Ingestion Immediate medical attention is not required

5. FIRE-FIGHTING MEASURES

Flammable Properties No data available.

Extinguishing Media

Suitable Extinguishing Media Unsuitable Extinguishing

Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Do not use a solid water stream as it may scatter and spread fire

Evacuate area and fight fire from a safe distance Fire Fighting

Hazardous Combustion Products Hazardous Combustion Products

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Safety glasses or goggles when splash potential exists

Local authorities should be advised if a significant spill cannot be contained **Environmental Precautions**

Methods for Containment Not available

Take up mechanically and collect in suitable container for disposal Methods for Cleaning up

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice

Storage Keep container tightly closed

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Common Name Exposure Guideline

2000 mcg/m³ Acetaminophen Chlorpheniramine Maleate 10 mcg/m³ 630 mcg/m³ Dextromethorphan HBr Diphenhydramine HCI 500 mcg/m³ Phenylephrine HCI 40 mcg/m³ Guaifenesin 3000 mcg/m³ Brompheniramine Maleate 200 mcg/m³ Pseudoephedrine HCI 200 mcg/m³

Engineering Controls Apply technical measures to comply with the occupational exposure guideline. Local exhaust

ventilation is needed for open handling or where aerosols may be generated.

Personal Protective Equipment

Eye/face ProtectionProvide eye protection based on risk assessment.Skin ProtectionWear nitrile or latex gloves. Wear protective garment.Respiratory ProtectionBase respirator selection on a risk assessment.

General Hygiene Considerations

When using, do not eat, drink or smoke

Other Limit access to only personnel trained in the safe handling of this material

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearancePharmaceutical LiquidPhysical StateLiquid

ColorVariousOdorNot available

Odor Threshold Not available

pH various

Specific GravityNot applicableWater SolubilityNot availableSolubilityNot applicableEvaporation RateNot applicable

Partition Coefficient Not available Vapor Pressure Not applicable (n-octanol/water)

Boiling PointNot availableAutoignition TemperatureNot applicableFlash PointNot availableMethodNone

Melting Point Not applicable

Flammability Limits Upper Not applicable Lower Not applicable

in Air

Explosion Limits Upper Not applicable Lower Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability Stable at room temperature.

Conditions to Avoid No data available

Materials to Avoid No materials to be especially mentioned

Hazardous Decomposition Products None under normal use.

Possibility of Hazardous Reactions None under normal use.

11. TOXICOLOGICAL INFORMATION

The following effects are based on the Active Pharmaceutical Ingredient.

Acute Toxicity

Acetaminophen

LD50 Oral 2404 mg/kg rats
Acute Dermal Irritation No data available
Primary Eye Irritation No data available
Sensitization No data available

Brompheniramine Maleate

LD50 Oral318 mg/kg ratsAcute Dermal IrritationNot applicablePrimary Eye IrritationNot applicableSensitizationNot applicable

Chlorpheniramine Maleate

LD50 Oral 118-680 mg/kg rats, 121 mg/kg mice

Acute Dermal IrritationNo data availablePrimary Eye IrritationNo data availableSensitizationNo data available

Dextromethorphan HBr

LD50 Oral 350 mg/kg rats, 39-165 mg/kg mice

Acute Dermal IrritationNot applicablePrimary Eye IrritationNot applicableSensitizationNot applicable

Diphenhydramine HCI

LD50 Oral 500 mg/kg rats, 164-200 mg/kg mice

Acute Dermal IrritationNot applicablePrimary Eye IrritationNot applicableSensitizationNot applicable

Guaifenesin

LD50 Oral 1510 mg/kg rats
Acute Dermal Irritation Not applicable
Primary Eye Irritation Not applicable

Sensitization Not applicable

Phenylephrine HCI

LD50 Oral 350 mg/kg rats, 1400 mg/kg mice

Acute Dermal Irritation Not irritating to rabbit skin.

Primary Eye Irritation No data available Sensitization No data available

Pseudoephedrine HCI

LD50 Oral371 mg/kg miceAcute Dermal IrritationNo data availablePrimary Eye IrritationNo data availableSensitizationNo data available

Multiple Dose Toxicity Not available

Chlorpheniramine Maleate

No Toxicologic EffectThis compound was well tolerated in rats and mice in repeat-dose toxicity studies for 13 **Dose/Species/Study Length:**This compound was well tolerated in rats and mice in repeat-dose toxicity studies for 13

weeks. There was a reduction of body weight gain and reduced survival at higher doses.

Maximum Tolerated Dose (MTD), Oral

Acetaminophen

Carcinogenicity Under the conditions of the National Toxicology Program (NTP) studies, there was no

evidence of carcinogenic activity in male rats or mice. Equivocal evidence was seen in female

rats. IARC Category 3.

Genetic Toxicity Not mutagenic in AMES Test. Induced sister chromatid exchanges and chromosomal

aberrations in cytogenetic tests using Chinese hamster ovary cells.

Reproductive Toxicity Testicular atrophy and inhibition of spermatogenesis was seen in animal studies at high dose

levels. Relevance to humans is not known.

Developmental ToxicitySee Reproductive Toxicity

Chlorpheniramine Maleate

Carcinogenicity Under the conditions of the National Toxicology Program (NTP) studies, there was no

evidence of Carcinogenicity activity in male or female rats or mice.

Genetic Toxicity No evidence of mutagenicity was observed in a battery of *in vitro* and *in vivo* assays.

Reproductive Toxicity Animal studies to evaluate effects on fertility have not been conducted.

Developmental ToxicityNo teratogenic effects were observed in mice.

Diphenhydramine HCI

Carcinogenicity Under the conditions of the National Toxicology Program (NTP) studies, there was no

evidence of carcinogenic activity in mice. Equivoval evidence was seen in rats.

Genetic Toxicity Non-mutagenic in *in vitro* studies.

Reproductive Toxicity No data available

Developmental ToxicityNo evidence of teratogenic effects, were observed in pregnant rats at the highest doses

administered where there were clear signs of maternal and fetal toxicity.

Phenylephrine HCI

Carcinogenicity Under the conditions of the National Toxicology Program (NTP) studies, there was no

evidence of Carcinogenicity activity in male or female rats or mice.

Genetic Toxicity No evidence of mutagenicity was observed in a battery of *in vitro* and *in vivo* assays.

Reproductive Toxicity

No data available

Developmental Toxicity

No data available

Acetaminophen

Target Organ(s) of Toxicity No data available

Chlorpheniramine Maleate

Target Organ(s) of Toxicity No data available

Diphenhydramine HCI

Target Organ(s) of Toxicity No data available

Phenylephrine HCI

Target Organ(s) of Toxicity No data available

12. ECOLOGICAL INFORMATION

The following effects are based on the Active Pharmaceutical Ingredient.

Chemical Fate Information

Dextromethorphan HBr

Mobility Not available

Biodegradability Not inherently biodegradable.

Stability in WaterNot availableBioaccumulationNot available

Ecotoxicity

Dextromethorphan HBr

Microorganisms EC50/3h >100 mg/l

Algae = 2.4 mg/l, NOEC = 0.37 mg/l

Daphnia EC50/daphnia > 14.5 mg/l mg/l, NOEC = 14.5 mg/l mg/l

Fish LC50/96h/rainbow trout = 4.9 mg/l

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local and national regulations.

14. TRANSPORT INFORMATION

Transport Information This material is not classified as hazardous for transport.

U.S. Department of Transport (DOT)

Canadian Transport of Dangerous Goods (TDG)

International Civil Aviation Organization (ICAO)

International Air Transport Association (IATA)

Not regulated Not r

Maritime Organization (IMO)

Transport of Dangerous Goods by Rail (RID)

Transport of Dangerous Goods by Road (ADR)

Not regulated

Not regulated

Not regulated

Not regulated

(ADN)

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15. REGULATORY INFORMATION

USA

Federal Regulations

OSHA Regulatory Status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

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

This product does not contain any HAPs.

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

Canada

Not classified

WHMIS Hazard Class

Non-controlled

European Union

Not Determined

16. OTHER INFORMATION

Prepared By Wyeth Department of Environment, Health & Safety

Format This MSDS was prepared in accordance with ANSI Z400.1-2004.

List of References Product Profiles
Revision Summary Not applicable

Disclaimer:

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End of MSDS