

Revision date: 04-Jan-2007

Version: 1.1

Page 1 of 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Inc Pfizer Pharmaceuticals Group 235 East 42nd Street New York, New York 10017 1-212-573-2222 Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom +00 44 (0)1304 616161

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Emergency telephone number: ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Bromhexine Hydrochloride Tablets

Trade Name:	Bromhexin ACO
Chemical Family:	Mixture
Intended Use:	Pharmaceutical product used as expectorant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Magnesium stearate	557-04-0	209-150-3	*
Starch	9005-25-8	232-679-6	*

Ingredient	CAS Number	EU EINECS List	%
Bromhexine Hydrochloride	611-75-6	210-280-8	8 mg***
Gelatin	9000-70-8	232-554-6	*
Lactose Monohydrate	64044-51-5	Not listed	*

Additional Information:

* Proprietary

*** per tablet/capsule/lozenge/suppository

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

3. HAZARDS IDENTIFICATION

Appearance:	White tablets
Statement of Hazard:	Non-hazardous in accordance with international standards for workplace safety.
Additional Hazard Information: Short Term:	Not acutely toxic (based on animal data). Accidental ingestion may cause effects similar to those seen in clinical use.
Known Clinical Effects: EU Indication of danger:	Effects reported during clinical use include headache, dizziness, skin rash and gastrointestinal disturbances. Not classified

Material Name: Bromhexine Hydrochloride Tablets Revision date: 04-Jan-2007

Note:	This document has been prepared in accordance with standards for workplace safety, which
	require the inclusion of all known hazards of the active substance or its intermediates
	regardless of the potential risk. The precautionary statements and warnings included may not
	apply in all cases. Your needs may vary depending upon the potential for exposure in your
	workplace.

4. FIRST AID MEASU	
Eye Contact:	Flush eye(s) immediately with plenty of water. If irritation occurs or persists, get medical attention.
Skin Contact:	Wash exposed area with soap and water, remove contaminated clothing and obtain medical assistance if irritation occurs.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.
Inhalation:	Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Extinguishing Media:	Use carbon dioxide, dry chemical, or water spray.
Hazardous Combustion Products:	Emits toxic fumes of carbon monoxide, carbon dioxide, oxides of nitrogen and bromine- containing compounds
Fire Fighting Procedures:	During all fire fighting activities, wear appropriate protective equipment, including self- contained breathing apparatus.
Fire / Explosion Hazards:	Not applicable

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions:	Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.
Measures for Cleaning / Collecting:	Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of dry solids. Clean spill area thoroughly.
Measures for Environmental Protections:	Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.
Additional Consideration for Large Spills:	Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.
7. HANDLING AND STORAGE	
General Handling:	If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes.

Storage Conditions: Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Material Name: Bromhexine Hydrochloride Tablets Revision date: 04-Jan-2007

ACGIH Threshold Limit Value Australia TWA	• (TWA)	= 10 mg/m ³ TWA = 10 mg/m ³ TWA	except stearates of toxic metals
Starch			
OSHA - Final PELS - TWAs:		= 15 mg/m³ TWA = 5 mg/m³ TWA	total
ACGIH Threshold Limit Value Australia TWA The exposure limit(s) listed for	· · ·	= 10 mg/m ³ TWA = 10 mg/m ³ TWA elevant if dust may be	e generated.
Engineering Controls:	Engineering controls sho	uld be used as the pr	imary means to control exposures.
Personal Protective Equipment:			
Hands:	Not required for the norm large quantities.	al use of this product	t. Wear protective gloves when working with
Eyes:	Not required for the norm is possible.	al use of this product	t. Wear safety glasses or goggles if eye contact
Skin:	Not required for the norm large quantities.	al use of this product	t. Wear protective clothing when working with
Respiratory protection:	Not required for the norm		t. If dust is present, a laboratory fume hood, local r should be used. The specific type used will be

9. PHYSICAL AND CHEMICAL PROPERTIES:				
Physical State:	Tablet	Color:	White	
Molecular Formula:	Mixture	Molecular Weight:	Mixture	

workplace.

determined by air concentrations present. Follow local regulations for respirator use in the

10. STABILITY AND READ	10. STABILITY AND REACTIVITY		
Stability: Conditions to Avoid: Incompatible Materials:	Stable under normal conditions of use. Not determined As a precautionary measure, keep away from strong oxidizers.		
11. TOXICOLOGICAL INF	ORMATION		
General Information:	The information included in this section describes the potential hazards of the individual ingredients.		
Acute Toxicity: (Species, Route	e, End Point, Dose)		
Starch Mouse IP LD50 6600 mg	ı/kg		
Magnesium stearate			

Rat Oral LD50 > 2000 mg/kg Rat Inhalation LC50 > 2000 mg/m³

Lactose Monohydrate

Rat Oral LD 50 29700 mg/kg

Material Name: Bromhexine Hydrochloride Tablets Revision date: 04-Jan-2007

Page 4 of 5 Version: 1.1

Bromhexine Hydrochloride Rat Oral LD 50 6000 mg/kg Mouse Oral LD 50 3000 mg/kg Rabbit Oral LD 50 10000 mg/k	
	ng/kg
Acute Toxicity Comments:	A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.
Carcinogen Status:	Not listed as a carcinogen by IARC, NTP or US OSHA.
12. ECOLOGICAL INFORMATI	ON

Environmental Overview: Environmental properties have not been investigated. Releases to the environment should be avoided.

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

EU Indication of danger:

Not classified

OSHA Label: Non-hazardous in accordance with international standards for workplace safety.

Canada - WHMIS: Classifications

WHMIS hazard class:

None required This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Material Name: Bromhexine Hydrochloride Tablets Revision date: 04-Jan-2007

Bromhexine Hydrochloride Australia (AICS): Standard for the Uniform Scheduling for Drugs and Poisons: EU EINECS List	Present Schedule 5 210-280-8
Magnesium stearate Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	Present Present 209-150-3
Gelatin Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	XU Present 232-554-6
Lactose Monohydrate Australia (AICS):	Present
Starch Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	XU Present 232-679-6

16. OTHER INFORMATION

Reasons for Revision:	Updated Section 3 - Hazard Identification. Updated Section 5 - Fire Fighting Measures. Updated Section 10 - Stability and Reactivity. Updated Section 11 - Toxicology Information. Updated Section 13 - Disposal Considerations.
Prepared by:	Toxicology and Hazard Communication Pfizer Global Environment, Health, and Safety

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied.

End of Safety Data Sheet