

Revision date: 21-Feb-2007

Version: 3.0

Page 1 of 7

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

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

Material Name: Ephedrine/theophylline/hydroxyzine hydrochloride tablets

Trade Name:	MARAX(R)
Chemical Family:	Mixture
Intended Use:	Pharmaceutical active used as bronchospasmolytic

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Hydroxyzine hydrochloride	2192-20-3	218-586-3	3.5
Ephedrine sulfate	134-72-5	205-154-4	8.9
Theophylline, anhydrous	58-55-9	200-385-7	45.8
Calcium carbonate	471-34-1	207-439-9	*
Sodium lauryl sulfate	151-21-3	205-788-1	*
Magnesium stearate	557-04-0	209-150-3	*

Ingredient	CAS Number	EU EINECS List	%
Alginic acid	9005-32-7	232-680-1	*
FD&C Blue no. 1 aluminum lake	68921-42-6	272-939-6	*

Additional Information: * Proprietary Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

3. HAZARDS IDENTIFICATIO	DN
Appearance: Signal Word:	White to off-white scored tablets WARNING
Statement of Hazard:	Harmful if swallowed. Suspected of damaging fertility or the unborn child.
Additional Hazard Information: Short Term: Known Clinical Effects:	May cause nervous system and cardiovascular system effects. Ingestion of large amounts of this material may cause effects similar to those seen in clinical use including irregular heart rate, fear, anxiety, restlessness, tremor, insomnia, confusion, high blood pressure, nausea, vomiting and loss of appetite.

Material Name: Ephedrine/theophylline/hydroxyzine hydrochloride tablets Revision date: 21-Feb-2007

Page 2 of 7

Version: 3.0

EU Indication of danger:	Harmful
	Toxic to Reproduction; Category 3



EU Risk Phrases:

R22 - Harmful if swallowed. R62 - Possible risk of impaired fertility. R63 - Possible risk of harm to the unborn child. **Australian Hazard Classification** Hazardous Substance. Non-Dangerous Goods.

Note:

(NOHSC):

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 MEASURES	
Eye Contact:	Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get medical attention.
Skin Contact:	Wash skin with soap and water. If irritation occurs or persists, get medical attention.
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.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Use carbon dioxide, dry chemical, or water spray.
Hazardous Combustion Products:	May include oxides of carbon, sulfur and products of chlorine.
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.		

Material Name: Ephedrine/theophylline/hydroxyzine hydrochloride tablets Revision date: 21-Feb-2007

Page 3 of 7

Version: 3.0

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:	Minimize dust generation and accumulation. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes, skin, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling.				
Storage Conditions:	Store as directed by prod	uct packaging.			
8. EXPOSURE CONTROLS / P	ERSONAL PROTECT	ION			
Hydroxyzine hydrochloride Pfizer OEL TWA-8 Hr:		0.3 mg/m³			
Theophylline, anhydrous Pfizer OEL TWA-8 Hr:		1.8mg/m³			
Calcium carbonate OSHA - Final PELS - TWAs:		= 15 mg/m ³ TWA = 5 mg/m ³ TWA	total		
ACGIH Threshold Limit Value	(TWA)	= 10 mg/m ³ TWA <1% crystalline sili	particulate matter containing no asbestos and ca		
ACGIH OELs - Notice of Intended Changes Australia TWA		Listed = 10 mg/m ³ TWA			
Sodium lauryl sulfate Pfizer OEL TWA-8 Hr: Pfizer STEL		0.3 mg/m³ 0.75 mg/m³			
Magnesium stearate ACGIH Threshold Limit Value Australia TWA The exposure limit(s) listed for se		= 10 mg/m³ TWA = 10 mg/m³ TWA elevant if dust may b	except stearates of toxic metals e generated.		
Analytical Method:	Analytical method availab	le for theophylline.	Contact Pfizer Inc for further information.		
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. Generation ventilation is adequate unless the process generates dust, mist or fumes. Keep air contamination levels below the exposure limits listed above in this section.		ss generates dust, mist or fumes. Keep airborne		
Personal Protective Equipment:					
Hands: Eyes: Skin: Pospiratory protection:	processing operations. Wear safety glasses or goggles if eye contact is possible. Impervious protective clothing is recommended if skin contact with drug product is possible ar for bulk processing operations.				
Respiratory protection:	If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.				

Material Name: Ephedrine/theophylline/hydroxyzine hydrochloride tablets Revision date: 21-Feb-2007 Page 4 of 7

Physical State:	
Odor:	
Molecular Weight:	

Tablet Odorless Mixture Color: Molecular Formula: White to off-white Mixture

10. STABILITY AND REACTIVITY

Stability: Conditions to Avoid: Incompatible Materials: Stable None known As a precautionary measure, keep away from strong oxidizers.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: (Species, Route, End Point, Dose)

Alginic acid Rat Oral LD50 > 5 g/kg

Calcium carbonate Rat Oral LD50 6450 mg/kg

Sodium lauryl sulfate Rat Oral LD50 1288 mg/kg

Magnesium stearate

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

Hydroxyzine hydrochloride

RatOralLD50840mg/kgMouseIPLD5081mg/kgRatIPLD50160mg/kgMouseIVLD50137mg/kgRatIVLD5045mg/kg

Ephedrine sulfate

Mouse Oral LD50 812 mg/kg Rat Oral LD50 404 mg/kg

Theophylline, anhydrous

MouseOralLD50235 mg/kgRatOralLD50225 mg/kgRabbitOralLD50350 mg/kgGuinea PigOralLD50183 mg/kgRatIPLD50188 mg/kgAcute Toxicity Comments:A

A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

Irritation / Sensitization: (Study Type, Species, Severity)

Sodium lauryl sulfate Eye Irritation Rabbit Severe

Material Name: Ephedrine/theophylline/hydroxyzine hydrochloride tablets Revision date: 21-Feb-2007 Page 5 of 7

Skin Irritation Rabbit Severe

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Theophylline, anhydrous

75 Week(s)	Rat	Oral	300 mg/kg/day	LOEL	Male reproductive system
13 Week(s)	Mouse	e Oral	300 mg/kg/day	LOEL	Male reproductive system
13 Week(s)	Rat	Oral	150 mg/kg/day	LOEL	Male reproductive system

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Hydroxyzine hydrochloride

Reproductive & Fertility Rat Oral 400 mg/kg LOAEL Developmental toxicity, Reproductive toxicity

Theophylline, anhydrous

Reproductive & Fertility 125 mg/kg/day Mouse Oral NOEL Embryotoxicity Embryo / Fetal Development Mouse Intraperitoneal 100 mg/kg LOEL Teratogenic Embryo / Fetal Development Mouse Oral 396 mg/kg/day NOEL Fetotoxicity, Not Teratogenic Embryo / Fetal Development Rat Oral 259 mg/kg/day NOEL Not Teratogenic Reproductive system

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Theophylline, anhydrous

In Vivo Sister Chromatid ExchangeChinese Hamster Ovary (CHO) cellsPositiveIn Vitro Chromosome AberrationRat Bone MarrowNegativeIn Vitro Sister Chromatid ExchangeHumanPositiveIn Vitro Chromosome AberrationHumanNegative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Theophylline, anhydrous

2 Year(s)	Rat	Oral	75 mg/ł	kg/day	NOEL I	Not carcin	ogenic
2 Year(s)	Fema	le Mouse	e Oral	75	mg/kg/day	NOEL	Not carcinogenic
2 Year(s)	Male	Mouse	Oral	150	mg/kg/day	NOEL	Not carcinogenic

Carcinogen Status:	Not listed as a carcinogen by IARC, NTP or US OSHA.	
Theophylline, anhydrous IARC:	Group 3	

12. ECOLOGICAL INFORMATION

Environmental Overview:

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

Material Name: Ephedrine/theophylline/hydroxyzine hydrochloride tablets Revision date: 21-Feb-2007

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	Symbol:	
EU	Indication of danger:	

Xn Harmful Toxic to Reproduction; Category 3

EU Risk Phrases:

R22 - Harmful if swallowed.

- R62 Possible risk of impaired fertility.
- R63 Possible risk of harm to the unborn child.

EU Safety Phrases:

S22 - Do not breathe dust. S36/37 - Wear suitable protective clothing and gloves.

OSHA Label: WARNING Harmful if swallowed. Suspected of damaging fertility or the unborn child.

Canada - WHMIS: Classifications

WHMIS hazard class: Class D, Division 2, Subdivision A



Hydroxyzine hydrochloride Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List

Ephedrine sulfate Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List Present Present 218-586-3

Present Present 205-154-4 Page 6 of 7

Version: 3.0

Material Name: Ephedrine/theophylline/hydroxyzine hydrochloride tablets Revision date: 21-Feb-2007

Page 7 of 7

Version: 3.0

Theophylline, anhydrous Inventory - United States TSCA - Sect. 8(b) Australia (AICS): Standard for the Uniform Scheduling for Drugs and Poisons: EU EINECS List	Present Present Schedule 3 Schedule 4 200-385-7
Alginic acid Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	XU Present 232-680-1
Calcium carbonate Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	Present Present 207-439-9
Sodium lauryl sulfate Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	Present Present 205-788-1
Magnesium stearate Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	Present Present 209-150-3
FD&C Blue no. 1 aluminum lake Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS List	Present Present 272-939-6

16. OTHER INFORMATION

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 a warranty of any kind, expressed or implied.

End of Safety Data Sheet