



MATERIAL SAFETY DATA SHEET

Revision date: 14-Jun-2006

Version: 1.1

Page 1 of 7

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

Pfizer Consumer Healthcare
Pfizer Inc
201 Tabor Road
Morris Plains, NJ 07950

Pfizer Ltd
Ramsgate Road
Sandwich, Kent
CT13 9NJ
United Kingdom
+00 44 (0)1304 616161

Emergency telephone number:
1-973-385-2000
Hours of Operation - 24 Hours:
CHEMTREC (24 hours): 1-800-262-8200

Emergency telephone number:
ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Listerine Tooth Defense Mouthwash

Trade Name: LISTERINE®
Chemical Family: Mixture
Intended Use: mouthwash

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Flavors	NOT ASSIGNED	Not listed	*
Phosphoric acid	7664-38-2	231-633-2	*
Sodium fluoride	7681-49-4	231-667-8	0.0221
Ethyl alcohol (ethanol)	64-17-5	200-578-6	22

Ingredient	CAS Number	EU EINECS List	%
Sodium lauryl sulfate	151-21-3	205-788-1	*
Sucralose	56038-13-2	259-952-2	*
Sodium phosphate, dibasic	7558-79-4	231-448-7	*
Water, purified	7732-18-5	231-791-2	*
D & C Red No. 33	3567-66-6	222-656-9	*
Poloxamer 407	9003-11-6	Not listed	*
Sorbitol solution	50-70-4	200-061-5	*
FD & C Blue No. 1	3844-45-9	223-339-8	*

Additional Information:

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

3. HAZARDS IDENTIFICATION

Appearance: Clear Pink Purple Liquid
Signal Word: CAUTION

Statement of Hazard: Flammable! May cause eye irritation
This product contains ethanol which can cause liver changes, central nervous system effects, and birth defects in the developing fetus
Eye Contact: May cause eye irritation.

MATERIAL SAFETY DATA SHEET

Material Name: Listerine Tooth Defense Mouthwash
Revision date: 14-Jun-2006

Page 2 of 7
Version: 1.1

Skin Contact: May cause transient skin irritation.
Inhalation: Exposure to high concentrations may cause irritation, headache, drowsiness, and symptoms of alcohol intoxication. An Occupational Exposure Limit has been established for one or more of the ingredients (see Section 8).
Ingestion: Ingestion of large quantities may cause headache, dizziness, nausea, vomiting, diarrhea, dehydration, and symptoms of alcohol intoxication.
Potential Health Effects: Chronic ingestion of ethanol has been associated with an increased incidence of cancer, liver cirrhosis, and, if ingested during pregnancy, congenital malformations. However, occupational handling of this product is not expected to result in relevant exposures.
EU Indication of danger: Irritant
Flammable

EU Hazard Symbols:

Xi



R10 - Flammable.
R36 - Irritating to eyes.

Additional Information: For a more detailed discussion of potential health hazards and toxicity see Section 11.
Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients 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. Remove contaminated clothing and shoes. This material may not be completely removed by conventional laundering. Consult professional laundry service. Do not home launder. If irritation occurs or persists, get medical attention.
Ingestion: Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical assistance if symptoms occur or persist.
Inhalation: Remove to fresh air. If discomfort persists, get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, dry chemical, or foam
Hazardous Combustion Products: Emits fumes of carbon monoxide, nitrogen oxides, and hydrogen cyanide.
Fire Fighting Procedures: Evacuate area and fight fire from a safe distance. Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear.
Fire / Explosion Hazards: Flammable liquid and vapor Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.
Additional Information: Vapors may form explosive mixture with air.

MATERIAL SAFETY DATA SHEET

Material Name: Listerine Tooth Defense Mouthwash
Revision date: 14-Jun-2006

Page 3 of 7
Version: 1.1

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: Use adequate ventilation. Avoid contact with skin and clothing. Avoid breathing vapor or mist.

Storage Conditions: Keep away from heat, sparks, flame, and other sources of ignition. Store in a cool, dry, well-ventilated area. Keep container tightly closed when not in use.

Storage Temperature: Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Sodium lauryl sulfate	
Pfizer OEL TWA-8 Hr:	0.3 mg/m ³
Pfizer STEL	0.75 mg/m ³
Phosphoric acid	
OSHA - Final PELs - TWAs:	1 mg/m ³
ACGIH Threshold Limit Value (TWA)	1 mg/m ³ TWA
ACGIH Threshold Limit Value (STEL)	3 mg/m ³ STEL
Ethyl alcohol (ethanol)	
OSHA - Final PELs - TWAs:	1000 ppm
	1900 mg/m ³
ACGIH Threshold Limit Value (TWA)	1000 ppm TWA

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Local and general ventilation should be used as necessary, when handling this material in bulk.

Personal Protective Equipment:

Hands:	Chemical protective gloves
Eyes:	Safety glasses or goggles
Skin:	Wear protective clothing when working with large quantities.
Respiratory protection:	None required under normal conditions of use. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

MATERIAL SAFETY DATA SHEET

Material Name: Listerine Tooth Defense Mouthwash
Revision date: 14-Jun-2006

Page 4 of 7
Version: 1.1

Physical State:	Liquid	Color:	Clear Pink Purple
Odor:	Mint	Molecular Formula:	Mixture
Molecular Weight:	Mixture		
Solvent Solubility:	Soluble: Alcohol		
Solubility:	Water Soluble:		
pH:	3.5		
Flash Point (°C):	33°C		
Autoignition Temperature (°C):	425°C		
Specific Gravity:	1.035		

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electrostatic discharge).
Incompatible Materials:	Strong oxidizing agents and strong inorganic acids
Polymerization:	Will not occur

11. TOXICOLOGICAL INFORMATION

General Information: There are no data for this formulation. The information included in this section describes the potential hazards of the individual ingredients.

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

Sodium fluoride

Rat Oral LD50 32 mg/kg
Rat IV LD50 11.8 mg/kg
Rat IP LD50 24 mg/kg

Sodium lauryl sulfate

Rat Oral LD50 1288 mg/kg

Sorbitol solution

Rat Oral LD50 15,900 mg/kg
Mouse Oral LD50 17,800 mg/kg

Ethyl alcohol (ethanol)

Mouse Oral LD50 3450 mg/kg
Rat Oral LD50 7060 mg/kg
Rat Inhalation LC50 10h 20,000 ppm

Phosphoric acid

Rat Oral LD50 1530 mg/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.

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

Sodium fluoride

Eye Irritation Rabbit Corrosive
Skin Irritation Rabbit Minimal

MATERIAL SAFETY DATA SHEET

Material Name: Listerine Tooth Defense Mouthwash
Revision date: 14-Jun-2006

Page 5 of 7
Version: 1.1

Sodium lauryl sulfate

Eye Irritation Rabbit Severe
Skin Irritation Rabbit Severe

Sodium phosphate, dibasic

Eye Irritation Rabbit Mild
Skin Irritation Rabbit Mild

Ethyl alcohol (ethanol)

Eye Irritation Rabbit Severe

Phosphoric acid

Eye Irritation Rabbit Severe
Skin Irritation Rabbit Severe

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

FD & C Blue No. 1
IARC: Group 3

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this material have not been fully evaluated. Releases to the environment should be avoided.

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Ethyl alcohol (ethanol)

Rainbow Trout LC50/96h 12,900-15,300 mg/L

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Observe all local and national regulations when disposing of this material.

14. TRANSPORT INFORMATION

Aqueous products containing alcohol at 24 percent or less are not subject to the requirements of the EU ADR, IATA, or IMDG. They are similarly exempt from US DOT requirements provided that they contain no less than 50 percent water.

15. REGULATORY INFORMATION

EU Symbol: Xi

MATERIAL SAFETY DATA SHEET

Material Name: Listerine Tooth Defense Mouthwash
Revision date: 14-Jun-2006

Page 6 of 7
Version: 1.1

EU Indication of danger: Irritant
Flammable

EU Risk Phrases: R10 - Flammable.
R36 - Irritating to eyes.

EU Safety Phrases: S7 - Keep container tightly closed.
S16 - Keep away from sources of ignition - No smoking.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

OSHA Label:

CAUTION

Flammable! May cause eye irritation

This product contains ethanol which can cause liver changes, central nervous system effects, and birth defects in the developing fetus

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision B

Class B, Division 2



Sodium lauryl sulfate

EU EINECS List

205-788-1

Inventory - United States TSCA - Sect. 8(b)

Listed

Phosphoric acid

CERCLA/SARA Hazardous Substances
and their Reportable Quantities:

2270 kg final RQ

5000 lb final RQ

EU EINECS List

231-633-2

Inventory - United States TSCA - Sect. 8(b)

Listed

Sucralose

EU EINECS List

259-952-2

Sodium phosphate, dibasic

CERCLA/SARA Hazardous Substances
and their Reportable Quantities:

2270 kg final RQ

5000 lb final RQ

EU EINECS List

231-448-7

Inventory - United States TSCA - Sect. 8(b)

Listed

Water, purified

EU EINECS List

231-791-2

Inventory - United States TSCA - Sect. 8(b)

Listed

Sodium fluoride

CERCLA/SARA Hazardous Substances
and their Reportable Quantities:

1000 lb final RQ

454 kg final RQ

MATERIAL SAFETY DATA SHEET

Material Name: Listerine Tooth Defense Mouthwash
Revision date: 14-Jun-2006

Page 7 of 7
Version: 1.1

EU EINECS List	231-667-8
Inventory - United States TSCA - Sect. 8(b)	Listed
D & C Red No. 33	
EU EINECS List	222-656-9
Inventory - United States TSCA - Sect. 8(b)	Listed
Poloxamer 407	
Inventory - United States TSCA - Sect. 8(b)	Listed
Sorbitol solution	
EU EINECS List	200-061-5
Inventory - United States TSCA - Sect. 8(b)	Listed
Ethyl alcohol (ethanol)	
California Proposition 65	developmental toxicity, initial date 10/1/87 (when in alcoholic beverages)
EU EINECS List	200-578-6
Inventory - United States TSCA - Sect. 8(b)	Listed
FD & C Blue No. 1	
EU EINECS List	223-339-8
Inventory - United States TSCA - Sect. 8(b)	Listed

16. OTHER INFORMATION

Reasons for Revision: Updated Section 2 - Composition / Information on Ingredients.

Prepared by: Corporate Occupational Toxicology & Hazard Assessment

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