



MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Pfizer Consumer Healthcare	Emergency telephone	(973) 385-2000
Pfizer Inc	Hours of operation	24 hours
201 Tabor Road		
Morris Plains, New Jersey 07950		

Trade names	LISTERINE®
Product name	Listerine® Antiseptic-Coolmint
Therapeutic use	Prevention of plaque, gingivitis and bad breath
Description	Blue Liquid

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	<u>Amount</u>
Thymol*	89-83-8	0.064%
Eucalyptol	470-82-6	0.092%
Methyl salicylate	119-36-8	0.060%
Menthol*	89-78-1	0.042%
Deionized water	7732-18-5	>50%
Ethanol*	64-17-5	21.6%
Sorbitol solution	50-70-4	Proprietary
Flavor	Not assigned	Proprietary
Poloxamer 407	9003-11-6	Proprietary
Benzoic Acid*	65-85-0	Proprietary
Sodium saccharin USP*	128-44-9	Proprietary
Sodium benzoate	532-32-1	Proprietary
FD&C Green No. 3*	2353-45-9	Proprietary

*Hazardous

Note: Ingredient(s) indicated as hazardous have been assessed under US OSHA Hazard Communication Standard for workplace safety (29 CFR 1910.1200).

SECTION 3 - HAZARDS IDENTIFICATION

Signal word	CAUTION!
--------------------	-----------------

SECTION 3 - HAZARDS IDENTIFICATION ... continued

Statements of hazard	FLAMMABLE! MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION. THIS PRODUCT CONTAINS ETHANOL WHICH CAN CAUSE LIVER CHANGES, CENTRAL NERVOUS SYSTEM EFFECTS, AND BIRTH DEFECTS IN THE DEVELOPING FETUS.
Eye effects	May cause eye irritation.
Skin effects	Not a skin irritant.
Inhalation effects	May cause respiratory tract irritation. Exposure to high concentrations may cause irritation, headache, drowsiness and symptoms of drunkenness. An Occupational Exposure Limit has been established for one or more of the ingredients (see Section 8).
Ingestion effects	Ingestion of large quantities may cause may cause headache, dizziness, nausea, vomiting, diarrhea, dehydration, and symptoms of drunkenness. See 'Statements of hazard' and/or 'Other potential health effects' in this section.
Other potential health effects	Chronic ingestion of ethanol has been associated with an increased incidence of cancer, liver cirrhosis, and congenital malformations.
Additional data	For a more detailed discussion of potential health hazards and toxicity see Section 11.
NOTE:	This document has been prepared in accordance with the US OSHA Hazard Communication Standard, which requires 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. If your workplace is regulated by OSHA, this document must be used as a part of a complete hazard-training program.

SECTION 4 - FIRST AID MEASURES

Eyes	Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get medical attention.
Skin	Remove clothing and wash affected skin with soap and water. If irritation occurs or persists, get medical attention.
Inhalation	Remove to fresh air. If discomfort 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.

SECTION 5 - FIRE FIGHTING MEASURES

General hazard	Flammable Vapors are heavier than air and can travel to a source of ignition and flash back. Vapors may form explosive mixture with air.
Fire fighting instructions	Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear.
Extinguishing media	Use carbon dioxide, sand, extinguishing powder. Do not use water.
Flash point	33°C (<100°F)
Hazardous combustion products	Emits fumes of carbon dioxide, nitrogen oxides, and hydrogen cyanide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General	Review Sections 3, 8 and 12 before proceeding with clean up.
Small spill	Use non-combustible absorbent material to wipe up spill and place in a sealed container for disposal. Clean spill area thoroughly.
Large spill	Contain the source of the spill or leak if it is safe to do so. Collect spill with a non-combustible absorbent material and transfer to labeled container for disposal. Close container and move it to a secure holding area.

SECTION 7 - HANDLING AND STORAGE

General handling	Keep away from heat. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid contact with skin and clothing. Avoid breathing vapor or mist.
Storage conditions	Keep container tightly closed when not in use. Store in a cool, dry area. Keep away from heat, sparks, flame, and other sources of ignition.
Temperature range for storage	Store as directed by product packaging.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits			
<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Ethanol	ACGIH	TWA-8 Hr	1000 ppm
	OSHA	TWA-8 Hr	1000 ppm
Ventilation	Keep airborne contamination levels below the exposure limits listed above in this section. Engineering controls should be used as the primary means to control exposures.		

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ... continued

Eye protection	Not required for the normal use of this product. Wear safety glasses or goggles if eye contact is possible.
Skin protection	Not required for the normal use of this product. Use protective clothing (lab coats, disposable coveralls, etc.) in both production and laboratory areas.
Hand protection	Not required for the normal use of this product. Wear protective gloves when working with large quantities.
Respiratory protection	Not required for the normal use of this product. 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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical form	Liquid
Color	Blue
Molecular weight	Mixture
Molecular formula	Mixture
pH	4.2 at 20°C
Melting point	Not applicable
Water solubility	Soluble
Solvent solubility	Soluble in alcohol

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Stable
Conditions to avoid	Avoid direct sunlight, conditions that might generate heat, and sources of ignition.
Incompatibilities	None known.
Hazardous decomposition products	None known
Hazardous polymerization	Not expected to occur

SECTION 11 - TOXICOLOGY INFORMATION

Toxicology summary The information included in this section describes the potential hazards of the individual ingredients.

Acute toxicity

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dosage</u>
Ethanol	LD ₅₀	Oral	Rat	7,060 mg/kg
	LC ₅₀ 10h	Inhalation	Rat	20,000 ppm
Benzoic Acid	LD ₅₀	Oral	Rat	2350 mg/kg
Sodium benzoate	LD ₅₀	Oral	Rat	4,070 mg/kg
	LD ₅₀	Oral	Mouse	1,600 mg/kg

Eye Not determined for this product. May cause moderate eye irritation based on components.

Skin Not expected to cause skin irritation

Inhalation Not determined for this product. However, moderate irritation may occur based on effects of individual components.

Ingestion Not determined for this product. See Acute toxicity table.

Mutagenicity Not determined for this product.

Subchronic effects Not determined for this product.

Chronic toxicity Chronic ingestion of ethanol has been reported to be associated with an increased incidence of cancer, liver cirrhosis, and congenital malformations. However, occupational handling of this product is not expected to result in relevant exposures.

**Chronic effects/
carcinogenicity** IARC (International Agency for Research on Cancer) has classified Alcoholic Beverages as Group 1 (carcinogenic to humans). However, occupational handling of this product is not expected to result in relevant exposures.

Carcinogen status Carcinogenicity of the mixture has not been determined. Alcohol is listed as a carcinogen by IARC. The IARC monograph examines the carcinogenic potential of ethanol only as an alcoholic beverage. No other components are listed as carcinogens by IARC, US OSHA or NTP.

Reproductive effects Not determined for this product.

Teratogenicity Not determined for this product. Developmental effects have been reported in humans and experimental animals given large doses of ethanol. However, occupational handling of this product is not expected to result in relevant exposures.

Target organs Liver, Central nervous system

SECTION 12 - ECOLOGICAL INFORMATION

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


SECTION 13 - DISPOSAL INFORMATION

Disposal procedure	Waste materials may be classified as hazardous due to the low flash point. Treatment, storage, transportation and disposal must be in accordance with applicable national and local regulations.
---------------------------	--

SECTION 14 - TRANSPORTATION INFORMATION

General shipping instructions	Aqueous products containing ethanol 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.
--------------------------------------	--

SECTION 15 - REGULATORY INFORMATION

EU Classification	Irritant
EU Labelling	Xi
Risk phrases	R10 - Flammable. R36 - Irritating to eyes.
Safety phrases	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 - Wear suitable protective clothing.
Canadian WHMIS	Class B, Division 2 (flammable liquid) Class D, Division 2, Subdivision B
EU Label Pictogram(s)	

SECTION 16 - OTHER

Disclaimer	The information contained in this Material Safety Data Sheet is believed to be accurate, and while it is provided in good faith, it is without a warranty of any kind, express or implied.
-------------------	---