



MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Pfizer Consumer Healthcare
Pfizer Inc
201 Tabor Road
Morris Plains, New Jersey 07950

Emergency telephone +1-973-385-2000
Hours of operation 24 hours

Trade names LISTERINE®
Product name Freshburst Listerine Antiseptic
Therapeutic use Mouthwash
Description Green Liquid

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	<u>Amount</u>
Ethanol*	64-17-5	21.6%
Sorbitol solution	50-70-4	Proprietary
Poloxamer 407	9003-11-6	Proprietary
Mouthwash flavor	Not assigned	Proprietary
Benzoic Acid*	65-85-0	Proprietary
Eucalyptol	470-82-6	Proprietary
Sodium saccharin USP*	128-44-9	Proprietary
Thymol*	89-83-8	Proprietary
Methyl salicylate*	119-36-8	Proprietary
Sodium citrate, anhydrous USP	68-04-2	Proprietary
Citric acid, anhydrous*	77-92-9	Proprietary
D & C yellow No. 10*	8004-92-0	Proprietary
FD&C Green No. 3*	2353-45-9	Proprietary
Deionized water	7732-18-5	Proprietary

*Hazardous

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

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	May cause transient skin irritation.
Inhalation effects	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 effects	Ingestion of large quantities may cause headache, dizziness, nausea, vomiting, diarrhea, dehydration, and symptoms of alcohol intoxication.
Other 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.
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 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.

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	Wash skin with soap and water. Remove contaminated clothing and shoes. Wash clothing and thoroughly clean shoes before reuse. 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 liquid. 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
Autoignition	425°C
Hazardous combustion products	Emits fumes of carbon monoxide, 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	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 area. Keep container tightly closed when not in use.
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
	NIOSH	TWA-8 Hr	1000 ppm
	German DFG	MAK-8 Hr	500 ppm
	UK OES	TWA-8 Hr	1000 ppm

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

Ventilation	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.
Eye protection	Safety glasses or goggles
Skin protection	Wear protective clothing when working with large quantities.
Hand protection	Wear protective gloves to avoid repeated skin contact.
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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical form	Liquid
Color	Green
Clarity	Clear
Odor	Mint
Taste	Mint
Molecular weight	Mixture
Molecular formula	Mixture
pH	4.2 at 20°C
Melting point	Not applicable (N/A)
Water solubility	Soluble
Solvent solubility	Soluble in alcohol

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Stable
Conditions to avoid	Avoid heat, flames, sparks, and other sources of ignition.
Incompatibilities	Strong oxidizing agents and strong inorganic acids.
Hazardous polymerization	Will not occur

SECTION 11 - TOXICOLOGY INFORMATION

Toxicology summary

There are no data for this formulation. 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>Result</u>
Ethanol	LD ₅₀	Oral	Rat	7,060 mg/kg
	LC50	Inhalation	Rat	20,000 mg/L
Benzoic Acid	Irritation	Ocular	Rabbit	100mg:Severe
	Irritation	Dermal	Rabbit	Irritant
Eucalyptol	LD ₅₀	Oral	Rat	2350 mg/kg
	LD ₅₀	Oral	Rat	2480 mg/kg
Methyl salicylate	LD ₅₀	Dermal	Rabbit	>5000 mg/kg
	Irritation	Ocular	Guinea Pig	Severe
Citric acid, anhydrous	LD ₅₀	Oral	Rat	3000 mg/kg

Eye

See Acute toxicity table.

Skin

Based on components, repeated or prolonged exposure may cause transient irritation.

Inhalation

High vapor concentrations of ethanol may cause drowsiness and irritation.

Ingestion

Based on components, ingestion of large amounts may cause headache, dizziness, nausea, vomiting, diarrhea, dehydration, and symptoms of alcohol intoxication.

Mutagenicity

Not determined for this product.

Subchronic effects

Not determined for this product.

Chronic toxicity

Chronic ingestion of ethanol has been 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.

Reproductive effects

Not determined for this product.

Teratogenicity

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

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

Observe all local and national regulations when disposing of this mixture.

SECTION 14 - TRANSPORTATION INFORMATION

General shipping instructions

This product is not regulated by DOT (49 CFR 173.150(e)), by IATA/ICAO (special provision A58), or by IMDG (special provision 44) when packaged for personal/household use in combination packaging with inner package of less than 1.3 gal/4.9L and total package weight of no more than 66 lbs/29.9kg.

SECTION 15 - REGULATORY INFORMATION

EU Classification

Irritant

EU Labelling

Xi

EU Label Pictogram(s)**Risk phrases**

R10 - Flammable.
R36 - Irritating to eyes.

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.

Canadian WHMIS

Class D, Division 2, Subdivision B
Class B, Division 2 (flammable liquid)

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.