

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF PRODUCT AND COMPANY

Pfizer Inc

Pfizer Animal Health 235 East 42nd Street New York, NY 10017 Emergency telephone

Hours of operation

Telephone

1-866-531-8896

24 Hours

1-800-366-5288

Trade names

LitterGuard®; LitterGuard®LT

Product name

Escherichia Coli Bacterin

Therapeutic use

Veterinary Vaccine

Description

Liquid solution

SECTION 2 - COMPOSITION

Ingredient
Aluminum hydroxide
Escherichia coli
Formaldehyde*

Merthiolate (as mercury)*

Water, purified

CAS Number Amount

21645-51-2 Proprietary Not assigned Proprietary

50-00-0 54-64-8

7732-18-5

0.1 - 1.0% Trace

90%

*Hazardous

Note:

Ingredient(s) indicated as hazardous have been assessed under standards

for workplace safety.

SECTION 3 - HAZARDS IDENTIFICATION

Signal word

WARNING!

Statements of hazard

CONTAINS FORMALDEHYDE: POTENTIAL CANCER HAZARD

MAY CAUSE SENSITIZATION OF THE SKIN AND

RESPIRATORY SYSTEM

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT

IRRITATION

Eye effects

May cause eye irritation.

Skin effects

May cause skin irritation. May cause allergic reaction.

Inhalation effects

An Occupational Exposure Limit has been established for one or more of the ingredients (see Section 8). See 'Statements of hazard' and/or 'Other

potential health effects' in this section.

SECTION 3 - HAZARDS IDENTIFICATION ... continued

Ingestion effects

None known

Other potential health

effects

In the event of accidental injection, an allergic reaction may occur. If an allergic reaction occurs, the worker should be removed to the nearest

emergency room and the appropriate therapy instituted.

Route of entry

Skin contact, inhalation, accidental injection

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

Skin Wash skin with soap and water. If irritation occurs or persists, get medical

attention.

Eyes Immediately flush eyes with water for at least 15 minutes. If irritation

occurs or persists, get medical attention.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get

medical attention immediately.

Ingestion Get medical attention. Do not induce vomiting unless directed by medical

personnel. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

General hazard This product is a nonflammable aqueous solution. This material is not

expected to support combustion.

Fire fighting instructions

Dike and collect water used to fight fire.

Extinguishing media

As for primary cause of fire.

Flash point

Non-flammable

Hazardous combustion

products

Not known

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General

Review Sections 3, 8 and 12 before proceeding with clean up.

SECTION 6 - ACCIDENTAL RELEASE MEASURES ... continued

Small spill Contain the source of the spill or leak. Use non-combustible absorbent

material to wipe up spill and place in a sealed container for disposal. Clean

spill area thoroughly. Prevent discharge to drains.

Large spill Dike, pump, or use non-combustible material to absorb spill; then place in

a labeled container for disposal. Close container and move it to a secure

holding area. Prevent discharge to drains.

SECTION 7 - HANDLING AND STORAGE

General handling Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

Avoid breathing vapor or mist. Use appropriate personal protective

equipment.

Storage conditions Store under refrigeration in closed container.

Temperature range

for storage

2-7°C

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure li	imits
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<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Formaldehyde	ACGIH	STEL-C	0.30 ppm
	OSHA	TWA-8 Hr	0.75 ppm
	OSHA	STEL	2 ppm
Merthiolate (as mercury)	OSHA	TWA-8 Hr	0.01 mg/m³ (skin)
	ACGIH	TWA-8 Hr	0.1 mg/m³ (skin)

Exposure information See exposure limits for component (s) listed above.

Ventilation Engineering controls should be used as the primary means to control

exposures. Exposure monitoring may be necessary to determine

requirements.

Respiratory protection In the event of a spill where the applicable Occupational Exposure Limit

(OEL) may be exceeded, wear an appropriate respirator with a protection

factor sufficient to control exposures below the OEL.

Eye protection Safety glasses or goggles

Skin protection Wear protective clothing when working with large quantities. Wash hands

and arms thoroughly after handling this material.

Hand protection Wear impervious gloves if skin contact is possible.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical form

Liquid Solution

Color

No data available

Molecular weight

Mixture

Molecular formula

Mixture

рH

7.0 +/- 1.5 standard pH units

Boiling point

>100°C

Melting point

Not applicable

Density

No data available

Vapor pressure

Expected to be negligible

Water solubility

Components are soluble in water

Solvent solubility

No data available

Specific gravity

1.0 +/-0.2

SECTION 10 - STABILITY AND REACTIVITY

Reactivity

Stable

Conditions to avoid

Store at 2-7°C. Prolonged exposure to higher temperatures may adversely

affect potency. Do not freeze.

Incompatibilities

This material can be denatured or inactivated by a variety of organic

solvents, salts or heavy metals.

Hazardous

decomposition

products

None expected under normal conditions.

Hazardous

polymerization

Will not occur

SECTION 11 - TOXICOLOGY INFORMATION

Toxicology summary

The antigens included in this product are non-infectious. All have been prepared from killed or inactivated preparations of microorganisms. The

primary hazards are due to the formaldehyde content.

Acute toxicity

Compound

Formaldehyde

Type LD_{50}

Irritation

Irritation

Route Oral Ocular

Dermal

Species Rat Rabbit

Rabbit

Result 800 mg/kg Severe

Mod-Severe

26R8.56 - Escherichia Coli Bacterin

Revision date: 10/05/04, Version: 1.4.0

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SECTION 11 - TOXICOLOGY INFORMATION ... continued

Eye See Acute toxicity table.

See Acute toxicity table. Skin

Not determined for this mixture. However, irritation may occur based on Inhalation

effects of individual components.

Ingestion See Acute toxicity table.

Formaldehyde has been reported to be active in many short-term tests, Mutagenicity

both in vitro and in vivo.

Sensitization This product contains formaldehyde and merthiolate which are considered

to be skin sensitizers.

Subchronic effects Rats exposed to 15 ppm formaldehyde vapor for six hours/day for up to

> nine days showed an acute cell degeneration, necrosis and inflammation in the nasal cavities. Inhalation exposure to formaldehyde for up to 90 days produced interstitial inflammation in the lungs of dogs, rats, monkeys,

rabbits and guinea pigs.

Chronic effects/

In rats, several inhalation studies have shown that formaldehyde induces squamous-cell carcinomas and necrosis of the nasal cavity. Formaldehyde carcinogenicity

also showed cocarcinogenic effects when inhaled, ingested, or applied to

the skin of rodents.

Carcinogen status Contains formaldehyde: potential cancer hazard.

Yes OSHA carcinogen

NTP carcinogen B (Reasonably anticipated to be a human carcinogen)

IARC carcinogen Group 1 - carcinogenic to humans

Not considered to be a reproductive hazard. Reproductive effects

Teratogenicity Formaldehyde has been tested by inhalation, oral, and dermal routes and

has not been shown to be teratogenic in animals.

SECTION 12 - ECOLOGICAL INFORMATION

The environmental characteristics of this material have not been fully Environmental overview

evaluated. Releases to the environment should be avoided.

SECTION 13 - DISPOSAL INFORMATION

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

> This product contains trace quantities of mercury and may qualify as a RCRA Hazardous Waste. Status should be confirmed using the EPA

Toxicity Characteristic Leaching Procedure (TCLP).

26R8.56 - Escherichia Coli Bacterin

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SECTION 14 - TRANSPORTATION INFORMATION

General shipping instructions

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

regulations.

SECTION 15 - REGULATORY INFORMATION

EU Classification

Irritant

EU Labelling

Xi

EU Label Pictogram(s)



Risk phrases

R43 - May cause sensitization by skin contact.

Safety phrases

S24 - Avoid contact with skin.

S37 - Wear suitable gloves.

California Proposition 65

Formaldehyde; Mercury (as Merthiolate)

Canadian WHMIS

Class D, Division 2, Subdivision A

SECTION 16 - OTHER

Disclaimer

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.