

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF PRODUCT AND COMPANY

Pfizer IncEmergency telephone1-866-531-8896Pfizer Animal HealthHours of operation24 Hours

235 East 42nd Street Telephone 1-800-366-5288

New York, NY 10017

Trade names BOVI-SHIELD BRSV

Product name BOVISHIELD BRSV (BOVINE RESPIRATORY SYNCYTIAL

VIRUS VACCINE, MODIFIED LIVE VIRUS)

Therapeutic use Veterinary Vaccine

Description Lyophilised powder

SECTION 2 - COMPOSITION

<u>Ingredient</u>	CAS Number	<u>Amount</u>
Appropriate cell substrates	Not assigned	Proprietary
Short chain peptide	Not assigned	< 30%
Sucrose*	57-50-1	<40%
Gelatin	9000-70-8	< 30%
Gentamicin*	1403-66-3	< 0.1%
Bovine Respiratory Syncytial Virus	Not assigned	Proprietary
Penicillin*	1406-05-9	< 0.1%
Streptomycin*	57-92-1	< 0.1%

*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 MAY CAUSE ALLERGIC REACTION IN PENICILLIN-

SENSITIVE INDIVIDUALS.

Eye effects None known; however, direct contact with any foreign material may cause

eye irritation.

Skin effects Contains trace quantities of penicillin which can cause allergic reactions in

susceptible individuals.

Inhalation effects Repeated exposure to dust or mist may produce allergic reactions. An

Occupational Exposure Limit has been established for one or more of the

ingredients (see Section 8).

SECTION 3 - HAZARDS IDENTIFICATION ... continued

Ingestion effectsToxicity following ingestion is not expected. Ingestion should be avoided.

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 IN CASE OF ACCIDENTAL INNOCULATION, CONSULT THE

EMERGENCY CONTACT LISTED IN SECTION 1. In case of direct skin contact, remove contaminated clothing and flush exposed area with

large amounts of water. Obtain medical assistance.

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.

In the event of swallowing this material, seek medical assistance.

Note to physician The viruses contained in this vaccine are generally not considered to cause

disease in humans.

SECTION 5 - FIRE FIGHTING MEASURES

General hazard This material is not expected to support combustion. Toxic or corrosive

gases are expected during a fire or heating of this material.

Fire fighting instructions Wear approved positive pressure, self-contained breathing apparatus and

full protective turn out gear. Move containers from fire area if possible without increased personal risk. Dike area if possible to contain water for

later disposal.

Extinguishing media Use carbon dioxide, dry chemical, or water spray.

Flash point Expected to be >55°C

Hazardous combustion

products

Toxic or corrosive gases are expected in fires involving this mixture.

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 Sweep spilled material into an approved container for disposal keeping

dust generation to a minimum. Prevent discharge to drains. Clean spill

are a thoroughly.

Large spill Contain the source of the spill or leak if it is safe to do so. Sweep spilled

material into an approved container for disposal keeping dust generation to

a minimum. Clean spill area thoroughly. Prevent discharge to drains.

SECTION 7 - HANDLING AND STORAGE

General handling Avoid contact with eyes, skin and clothing. Avoid breathing dust.

Storage conditions Follow product information storage instructions to maintain efficacy. Do

not freeze. No other storage requirements are necessary concerning

occupational hazards.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

<u>Compound</u> <u>Issuer</u> <u>Type</u> <u>OEL</u>

Sucrose OSHA TWA-8 Hr 5 mg/m³ (respirable fraction)

OSHA TWA-8 Hr 15 mg/m³ (total dust)

ACGIH TWA-8 Hr 10 mg/m³ UK OES TWA-8 Hr 10 mg/m³

Exposure information The exposure limit(s) listed for solid components are only relevant if dust

may be generated.

Ventilation Good general ventilation should be sufficient to control airborne levels.

Respiratory protection Respirators are not required for normal use of this material.

Eye protection Wear safety glasses with sideshields if eye contact is possible.

Skin protection Individuals with known sensitivity to penicillin should wear long sleeves

to avoid skin contact. 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 Powder

Color No data available

Molecular weight Mixture

Molecular formula Mixture

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ... continued

pH No data availableBoiling point No data available

Melting point No data available

Density No data available

Vapor pressure No data available

Water solubility Components are soluble in water

Solvent solubility No data available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity This material is Stable

Conditions to avoid Avoid freezing and storage at temperatures greater than 7° C.

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 Not expected to occur

polymerization

SECTION 11 - TOXICOLOGY INFORMATION

Acute toxicity

CompoundTypeRouteSpeciesDosageSucroseLD50OralRat29,700 mg/kg

Eye Not determined for this mixture. Not expected to cause eye irritation

Skin Not determined for this mixture. Not expected to cause skin irritation.

Inhalation Not determined for this mixture.

Ingestion Not determined for this mixture. Toxicity is not expected following

ingestion.

Mutagenicity Not determined for this mixture.

Sensitization Sensitization (allergic skin reaction) may occur, based on effects of

individual components.

Subchronic effects Not determined for this mixture.

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Chronic effects/ Not determined for this mixture. carcinogenicity

Carcinogen status None of the components of this formulation is listed as a carcinogen by

IARC, NTP or OSHA.

Teratogenicity The effects on developing offspring are not known.

Additional information This mixture contains a modified live virus vaccine for use in cattle.

SECTION 12 - ECOLOGICAL INFORMATION

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

evaluated. Releases to the environment should be avoided.

SECTION 13 - DISPOSAL INFORMATION

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

For large quantities, dispose of waste on site in a biomedical incinerator if allowed by the incinerator permit. If no on-site incinerator is available,

dispose of waste in a licensed biomedical incinerator.

SECTION 14 - TRANSPORTATION INFORMATION

General shipping Not regulated for transport under USDOT, EUADR, IATA, or IMDG instructions regulations.

SECTION 15 - REGULATORY INFORMATION

EU Classification Not classified

Canadian WHMIS This product has been classified in accordance with the hazard criteria of

the CPR and the MSDS contains all of the information required by the

CPR.

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.

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