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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name RSVpreF Vaccine

Product Code(s) PZ03551

Synonyms PF-06928316 RSV Vaccine; Lyophilized RSV 847A and 847B Bivalent Drug Product; RSV

Bivalent Vaccine

Trade Name: ABRYSVO Not determined **Chemical Family:**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Pharmaceutical product

1.3. Details of the supplier of the safety data sheet

Pfizer Research and Development

OSG Building 445 Eastern Point Road

Groton, CT USA Ringaskiddy, Co. Cork. 1-800-879-3477 Ireland

+353 21 4378701

E-mail address pfizer-MSDS@pfizer.com

1.4. Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300 International Chemtrec (24 hours):+1-703-527-3887

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS - Classification: Not classified as hazardous according to Regulation (EC) 1272/2008 and/or other applicable regulations.

2.2. Label elements

Signal word Not Classified

Not classified in accordance with international standards for workplace safety. **Hazard statements**

Supplemental Hazard Compound, not fully tested, hazards unknown.

2.3. Other hazards

Other hazards An Occupational Exposure Value has been established for one or more of the ingredients

(see Section 8).

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.

Pfizer Ireland Pharmaceuticals

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substances

Not applicable

3.2 Mixtures

NonHazardous

Chemical name	Weight-%	REACH Registration	EC No	Classification according to	Specific concentration	M-Factor	M-Factor (long-term)
		Number		Regulation (EC) No.	limit (SCL)		
				1272/2008			
				[CLP]			
Mannitol	*	-	200-711-8	Not classified	Not Listed	No data	No data
(CAS #: 69-65-8)				as hazardous		available	available
Sucrose	*	-	200-334-9	Not classified	Not Listed	No data	No data
(CAS #: 57-50-1)				as hazardous		available	available
SODIUM CHLORIDE	*	-	231-598-3	Not classified	Not Listed	No data	No data
(CAS #: 7647-14-5)				as hazardous		available	available
Tris(hydroxymethyl)a	*	-	214-684-5	Not classified	Not Listed	No data	No data
minomethane				as hazardous		available	available
hydrochloride							
(CAS #: 1185-53-1)							
PF-06937100 (847B	< 1		Not Listed	Not classified	Not Listed	No data	No data
Prefusion Protein)				as hazardous		available	available
(CAS #: NOT							
ASSIGNED)							
PF-06934186 (847A	< 1		Not Listed	Not classified	Not Listed	No data	No data
Prefusion Protein)				as hazardous		available	available
(CAS #: NOT							
ASSIGNED)							
Tromethamine	*	-	201-064-4	Not classified	Not Listed	No data	No data
(CAS #: 77-86-1)				as hazardous		available	available
Polysorbate 80	*	-	500-019-9	Not classified	Not Listed	No data	No data
(CAS #: 9005-65-6)				as hazardous		available	available

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

Chemical name	Oral LD50	Dermal LD50		Inhalation LC50 - 4	
			hour - dust/mist - mg/L	hour - vapor - mg/L	hour - gas - ppm
Mannitol 69-65-8	13500	No data available	No data available	No data available	No data available
Sucrose 57-50-1	29700	No data available	No data available	No data available	No data available
SODIUM CHLORIDE 7647-14-5	3550	10000	No data available	No data available	No data available

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	
Tromethamine 77-86-1	5900	5000	No data available	No data available	No data available
Polysorbate 80 9005-65-6	34.5 mL/kg	No data available	No data available	No data available	No data available

Additional information * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this

mixture has been withheld as a trade secret.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation Remove to fresh air. Seek immediate medical attention/advice.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion Never give anything by mouth to an unconscious person. Wash out mouth with water. Do

not induce vomiting unless directed by medical personnel. Seek medical attention

immediately.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and

effects

For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Identification and/or Section 11 - Toxicological Information.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians None.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO2, alcohol-resistant foam or water spray.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Fine particles (such as dust and mists) may fuel fires/explosions.

Hazardous combustion products Formation of toxic gases is possible during heating or fire.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

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Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

6.2. Environmental precautions

Environmental precautions Place waste in an appropriately labeled, sealed container for disposal. Care should be

taken to avoid environmental release.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain the source of the spill or leak. Collect spilled material by a method that controls dust

generation. Avoid use of a filtered vacuum to clean spills of dry solids. Clean spill area

thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Restrict access to work area. A change area to facilitate 'good laboratory/manufacturing' decontamination practices is recommended. Additional controls (based on risk assessment) should be implemented where open handling is required. Use enclosed manufacturing processing strategies. Avoid inhalation and contact with skin, eye, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Storage Temperature as lyophilized cake: 2-8C. Storage Temperature as reconstitued

solution 15-30C. Keep away from heat, sparks, and flames.

7.3. Specific end use(s)

Specific use(s) Pharmaceutical product.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

Refer to available public information for specific member state Occupational Exposure Limits.

Mannitol

Russia MAC: 10 mg/m³

Sucrose

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ACGIH TLV 10 mg/m³ Bulgaria 10.0 mg/m³ Estonia 10 mg/m³ 10 mg/m³ France Ireland 10 mg/m³ STEL: 20 mg/m3

Latvia 5 mg/m³ Spain 10 mg/m³ **OSHA PEL** 15 mg/m³ 5 ma/m³

> (vacated) TWA: 15 mg/m3 total dust (vacated) TWA: 5 mg/m3 respirable fraction

United Kingdom TWA: 10 mg/m³ STEL: 20 mg/m³

SODIUM CHLORIDE

Latvia 5 mg/m³ Russia MAC: 5 mg/m³

Pfizer Occupational Exposure Band The Vaccines Occupational Exposure Band (V-OEB) is a classification that has been (OEB) Statement: assigned to biotechnology-based vaccines and antigen components. Risk assessments should be performed to assess potential exposures and determine appropriate controls.

SODIUM CHLORIDE

Pfizer Occupational Exposure OEB 1 (control exposure to the range of 1000ug/m³ to 3000ug/m³)

Band (OEB):

PF-06934186 (847A Prefusion Protein)

Pfizer Occupational Exposure V-OEB

Band (OEB):

PF-06937100 (847B Prefusion Protein)

Pfizer Occupational Exposure V-OEB

Band (OEB): **Tromethamine**

Pfizer Occupational Exposure OEB 1 (control exposure to the range of 1000ug/m³ to 3000ug/m³)

Band (OEB):

PF-06928316

Pfizer Occupational Exposure

Band (OEB):

V-OEB

8.2. Exposure controls

Release prevention and exposure protection measures should be established for any **Engineering controls**

activities involving this material, as determined by a risk assessment conducted using appropriate Occupational Hygiene Risk Assessment tools. The containment level required for the activity should be based on the conclusions of the risk assessment. Where warranted, engineering controls, such as biosafety cabinets, should be applied as the

primary means to control exposures.

No information available. **Environmental exposure controls**

Refer to applicable national standards and regulations in the selection and use of personal Personal protective equipment

protective equipment (PPE). Contact your safety and health professional or safety equipment supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in

the workplace and specific operational processes.

Eye/face protection Wear safety glasses as minimum protection (goggles recommended). (Eye protection must

meet the standards in accordance with EN166, ANSI Z87.1 or international equivalent.).

Hand protection Wear impervious disposable gloves (e.g. Nitrile, etc.) as minimum protection (double

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(Protective gloves must meet the standards in accordance with EN374, recommended).

ASTM F1001 or international equivalent.).

Wear impervious disposable protective clothing when handling this compound. Full body Skin and body protection

protection is recommended (scale dependent). (Protective clothing must meet the standards

in accordance with EN13982, ANSI 103 or international equivalent.).

If operating and handling conditions result in airborne exposure, wear an appropriate Respiratory protection

respirator with a protection factor sufficient to control exposures (e.g. particulate cartridge with a full face respirator, P3 filter). (Respirators must meet the standards in accordance

with EN136, EN143, ASTM F2704-10 or international equivalent.)

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state solid White Color

No information available. Odor **Odor threshold** No information available

Molecular formula Mixture Mixture Molecular weight

Property Values 7.4 Hq Melting point / freezing point 66

Boiling point / boiling range

Flash point No information available **Evaporation rate** No data available Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability limit: No data available

Lower flammability limit: No data available

No data available Vapor pressure No data available Vapor density Relative density No data available

Water solubility Soluble

Solubility(ies) No data available No data available Partition coefficient **Autoignition temperature** No data available **Decomposition temperature** No data available Kinematic viscosity No data available **Dynamic viscosity** No data available

Particle characteristics

No information available **Particle Size Particle Size Distribution** No information available No information available **Explosive properties**

Partition Coefficient: (Method, pH, Endpoint, Value)

Tromethamine

Predicted 7.4 Log D -4.668

9.2. Other information

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No information available

9.2.1. Information with regard to physical hazard classes

No information available

9.2.2. Other safety characteristics

No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity No data available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact No data available. Sensitivity to Static Discharge No data available.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No information available.

10.4. Conditions to avoid

Conditions to avoid Fine particles (such as dust and mists) may fuel fires/explosions.

10.5. Incompatible materials

Incompatible materialsAs a precautionary measure, keep away from strong oxidizers.

10.6. Hazardous decomposition products

Hazardous decomposition products No data available.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

General Information: The following information is available for the individual ingredients. Toxicological properties

of the formulation have not been investigated.

Short term 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.

Known Clinical Effects: Based on clinical trials in humans, possible adverse effects following exposure to this

compound may include: injection site pain, tiredness, headache, muscle pain, gestational

hypertension, preeclampsia, joint pain, nausea.

Acute toxicity Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Skin corrosion/irritationRespiratory or skin sensitization

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

STOT - single exposure
STOT - repeated exposure
Reproductive toxicity
Germ cell mutagenicity
Carcinogenicity
Aspiration hazard

Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

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

Mannitol

Rat Oral LD 50 13500 mg/kg Mouse Oral LD 50 22 g/kg

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Sucrose

Rat Oral LD 50 29,700 mg/kg

SODIUM CHLORIDE

Rat Sub-tenon injection (eye) LC50/1hr > 42 g/m³

Rat Oral LD 50 3 g/kg Mouse Oral LD 50 4 g/kg

Rabbit Dermal LD 50 > 10 g/kg

Tromethamine

Rat Oral LD50 5900 mg/kg

Rat Dermal LD 50 > 5000 mg/kg

Polysorbate 80

Rat Intravenous LD 50 1790 mg/kg

Mouse Oral LD 50 25 g/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Mannitol	= 13500 mg/kg (Rat)	-	-
Sucrose	= 29700 mg/kg (Rat)	-	-
SODIUM CHLORIDE	= 3550 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat)1 h
Tromethamine	= 5900 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Polysorbate 80	= 34.5mL/kg (Rat)	-	-

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 CHLORIDE

Skin irritation Rabbit Mild Eve irritation Rabbit Mild

Tromethamine

Eye Irritation Rabbit Slight Skin Irritation Rabbit Slight

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Tromethamine

Bacterial Mutagenicity (Ames) E. coli Negative

Carcinogenicity None of the components of this formulation are listed as a carcinogen by IARC, NTP or

OSHA.

* Data below is for PF-07203723 (Lyophilized RSV 847A (PF-06934186) and 847B (PF-06937100) Bivalent Vaccine Drug Product).

** Data below is for PF-07052944 (Lyophilized RSV 847A (PF-06934186) and 847B (PF-06937100) Bivalent Vaccine Drug Product).

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

** 31 Day(s)	Rat	Intramuscular	240 ug/dose	NOAEL	None identified
** 38 Day(s)	Rat	Intramuscular	240 ug/dose	NOAEL	None identified

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Repeated Dose Toxicity Comments: PF-07052944 = 847A [RSV A] and 847B [RSV B]) in Tris, NaCl, Polysorbate 80, sucrose Reproduction & Development Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

* Fertility & Embryonic Development - Females Rabbit

Intramuscular

Not Specified

NOAEL

No effects at maximum dose

Reproductive & Development

* PF-07203723 = 847A [RSV A] and 847B [RSV B] in Tris, NaCl, Polysorbate 80, sucrose,

mannitol

Toxicity Comments:

11.2. Information on other hazards
11.2.1. Endocrine disrupting properties

Endocrine disrupting properties

No information available.

11.2.2. Other information

Other adverse effects

No information available.

Section 12: ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been investigated. Releases to the environment should

be avoided.

12.1. Toxicity

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

Tromethamine

Daphnia magna (Water Flea) OECD EC50 48 hours > 980 mg/L

Pseudokirchneriella subcapitata (Green Alga) OECD EC50 48 Hours 473 mg/L

Bacterial Inhibition: (Inoculum, Method, End Point, Result)

Tromethamine

Activated sludge OECD EC50 > 1000 mg/L

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Partition Coefficient: (Method, pH, Endpoint, Value)

Tromethamine

Predicted 7.4 Log D -4.668

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

	Chemical name	PBT and vPvB assessment
I	SODIUM CHLORIDE	The substance is not PBT / vPvB PBT assessment does
		not apply

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Tris(hydroxymethyl)aminomethane hydrochloride	The substance is not PBT / vPvB PBT assessment does
	not apply
Tromethamine	The substance is not PBT / vPvB PBT assessment does
	not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural wastewater and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

Section 14: TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

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

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental Hazard(s):
Not applicable
Not applicable
Not applicable

Special precautions for user: Not applicable

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Mannitol

CERCLA/SARA Section 313 de minimus % Not Listed
California Proposition 65 Not Listed
TSCA Present
EINECS 200-711-8
AICS Present

Sucrose

CERCLA/SARA Section 313 de minimus % Not Listed California Proposition 65 Not Listed TSCA Present EINECS 200-334-9

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AICS SODIUM CHLORIDE	Present
CERCLA/SARA Section 313 de minimus % California Proposition 65 TSCA EINECS AICS	Not Listed Not Listed Present 231-598-3 Present
Tris(hydroxymethyl)aminomethane hydrochloride CERCLA/SARA Section 313 de minimus % California Proposition 65 TSCA EINECS AICS	Not Listed Not Listed Present 214-684-5 Present
PF-06937100 (847B Prefusion Protein) CERCLA/SARA Section 313 de minimus % California Proposition 65 EINECS	Not Listed Not Listed Not Listed
PF-06934186 (847A Prefusion Protein) CERCLA/SARA Section 313 de minimus % California Proposition 65 EINECS	Not Listed Not Listed Not Listed
Tromethamine CERCLA/SARA Section 313 de minimus % California Proposition 65 TSCA EINECS AICS Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)	Not Listed Not Listed Present 201-064-4 Present Schedule 4
Polysorbate 80 CERCLA/SARA Section 313 de minimus % California Proposition 65 TSCA EINECS AICS	Not Listed Not Listed Present Not Listed Present

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
SODIUM CHLORIDE	RG 78	-
7647-14-5		

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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Plant protection products directive (91/414/EEC)

Chemical name	Plant protection products directive (91/414/EEC)	
Sucrose - 57-50-1	Plant protection agent	
SODIUM CHLORIDE - 7647-14-5	Plant protection agent	

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Data Sources: Pfizer proprietary drug development information.

Reason for revision Updated Section 11 - Toxicology Information.

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Prepared By Pfizer Global Environment, Health, and Safety

Pfizer Inc believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

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