

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product identifier**

**Product Name** Fluzone® Quadrivalent, High Dose Influenza Vaccine

**Synonyms**

High Dose Quadrivalent influenza vaccine; Intradermal High Dose Quadrivalent influenza vaccine

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Active immunization for the prevention of influenza disease caused by influenza A subtype viruses and type B viruses contained in the vaccine.

**Uses advised against** Not available.

**Details of the supplier of the safety data sheet**

**Supplier Address**

Sanofi Pasteur  
1 Discovery Drive  
Swiftwater, PA 18370

**Emergency telephone number**

**Company Phone Number** 1-800-VACCINE (1-800-822-2463)  
**24 Hour Emergency Phone Number** 1-570-957-4400  
**Emergency Telephone** 1-570-957-4400

**2. HAZARDS IDENTIFICATION**

**Classification**

**Health Hazards**

Not classified.

**Physical hazards**

Not classified.

**OSHA Regulatory Status**

This product is a vaccine that is safe for consumers when used according to the label directions. Potential hazards that may occur if product is not used according to the consumer label are as follows throughout the sheet.

**Label elements**

**Emergency Overview**

Normal precautions common to safe manufacturing practice should be followed in handling and storage.

**Appearance** Clear and slightly opalescent suspension

**Physical state** Liquid

**Odor** Not available.

**Hazards not otherwise classified (HNOC)**

Not classified as a hazardous substance.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Fluzone Quadrivalent

Chemical Name	CAS No.	Weight-%
Split Influenza Virus, inactivated strains	N/A	0.012
Sodium phosphate-buffered isotonic sodium chloride solution	N/A	q.s. to 100
Thimerosal 50µg/0.5 mL(per dose)*	54-64-8	0.01

Note: Ingredients below reportable levels are not listed.

\*Note: Only the multidose vial contains Thimerosal, a mercury derivative.

### 4. FIRST AID MEASURES

#### First aid measures

##### **Eye contact**

In case of eye contact, immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.

##### **Skin Contact**

In case of contact, remove contaminated clothing. Immediately flush skin with copious amounts of water for at least 15 minutes. Obtain medical attention if skin reaction occurs.

##### **Inhalation**

In case of inhalation, remove to fresh air. If breathing is difficult, administer oxygen. Seek medical attention immediately.

##### **Ingestion**

In case of accidental ingestion, wash out mouth with copious amounts of water. Seek medical attention if needed. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

##### **Self-protection of the first aider**

Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

#### Most important symptoms and effects, both acute and delayed

##### **Symptoms**

Common effects of the vaccine include the following: pain, tenderness, erythema, and swelling of the injection site; swelling; irritability; abnormal crying; malaise; drowsiness; appetite loss; myalgia; vomiting; fever; headache.

#### Indication of any immediate medical attention and special treatment needed

##### **Note to physicians**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** None known.

#### Specific hazards arising from the chemical

Not available.

**Hazardous combustion products** Not available.

#### Explosion data

**Sensitivity to Mechanical Impact** Not available.

**Sensitivity to Static Discharge** None known.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear appropriate personal protective equipment (see Section 8).

### Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

### 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

Wipe up with absorbent material (e.g. cloth) for disposal. Area where spill occurred can be cleaned with the regular cleaning materials designated for the area.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store at 2° to 8°C (35° to 46°F). Do not freeze.

### Incompatible materials

Not available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with Occupational Exposure Limits (OEL) established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering Controls** Used as supplied, no special engineering controls are needed when administering the vaccine.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** In laboratory or industrial settings, safety glasses with side shields are recommended

**Skin and body protection** In laboratory or industrial settings, gloves and lab coats are recommended.

**Respiratory protection** Used as supplied, general room ventilation is acceptable and no special respiratory protection is needed when administering the vaccine.

### General Hygiene Considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	Not available.
<b>Appearance</b>	Clear and slightly opalescent suspension	<b>Odor threshold</b>	Not available.
<b>Color</b>	Clear to slightly opalescent		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not available.	
Melting point/freezing point	Not available.	
Boiling point / boiling range	Not available.	
Flash point	Not available.	

Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Flammability Limit in Air	
Upper flammability limit:	Not available.
Lower flammability limit:	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific Gravity	Not available.
Water solubility	Not available.
Solubility in other solvents	Not available.
Partition coefficient	Not available.
Autoignition temperature	Not available.
Decomposition temperature	Not available.
Kinematic viscosity	Not available.
Dynamic viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

**Other Information**

Softening point	Not available.
Molecular weight	Not available.
VOC Content (%)	Not available.
Density	Not available.
Bulk density	Not available.

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive under normal conditions.

**Chemical stability**

Stable under normal conditions.

**Possibility of Hazardous Reactions**

None under normal handling.

<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
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**Conditions to avoid**

Not available.

**Incompatible materials**

Not available.

**Hazardous Decomposition Products**

None under normal use conditions.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

<b>Product Information</b>	No data available.
<b>Inhalation</b>	No impact known or expected under normal use.
<b>Eye contact</b>	No impact known or expected under normal use.
<b>Skin Contact</b>	No impact known or expected under normal use.
<b>Ingestion</b>	No impact known or expected under normal use.

**Information on toxicological effects****Symptoms**

Common effects of the vaccine include the following: pain, tenderness, erythema, and swelling of the injection site; swelling; irritability; abnormal crying; malaise; drowsiness; appetite loss; myalgia; vomiting; fever; headache.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

Not available.

**Serious eye damage/eye irritation**

Not available.

**Irritation**

Not available.

**Corrosivity**

Not available.

**Sensitization**

Not available.

**Germ cell mutagenicity**

Not available.

**Carcinogenicity**

Not available.

**Reproductive toxicity**

Pregnancy Category C: Animal reproduction studies have not been conducted with Fluzone Quadrivalent. It is also not known whether Fluzone Quadrivalent can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. It is not known whether Fluzone Quadrivalent is excreted in human milk.

**Developmental Toxicity**

Not available.

**Teratogenicity**

Not available.

**STOT - single exposure**

Not classified.

**STOT - repeated exposure**

Not classified.

**Chronic toxicity**

Not available.

**Subchronic toxicity**

Not available.

**Target Organ Effects**

Not available.

**Neurological effects**

Not available.

**Other adverse effects**

Not available.

**Aspiration hazard**

Not available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Not available.

**Persistence and degradability**

Not available.

**Bioaccumulation**

Not available.

**Mobility**

Not available.

**Other adverse effects**

Not available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**US EPA Waste Number**

Not applicable.

**California Hazardous Waste Codes**

Not applicable.

**14. TRANSPORT INFORMATION**

<b><u>DOT</u></b>	Not regulated.
<b><u>TDG</u></b>	Not regulated.
<b><u>MEX</u></b>	Not regulated.
<b><u>ICAO (air)</u></b>	Not regulated.
<b><u>IATA</u></b>	Not regulated.
<b><u>IMDG</u></b>	Not regulated.
<b><u>RID</u></b>	Not regulated.
<b><u>ADR</u></b>	Not regulated.
<b><u>ADN</u></b>	Not regulated.

**15. REGULATORY INFORMATION**

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No.	Weight-%	SARA 313 – Threshold Values %
Thimerosal – 54-64-8	54-64-8	0.01	1.0

Note: Only the multidose vial contains thimerosal.

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product contains the following substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Thimerosal 54-64-8	-	X	-	-

Note: Only the multidose vial contains thimerosal.

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**US State Regulations****California Proposition 65**

Component (Thimerosal) is on proposition 65-list; however, based on percentage of formulation it is not considered hazardous. Note: Only the multidose vial contains thimerosal.

Component (Formaldehyde) is on proposition 65-list; however, based on percentage of formulation it is not considered hazardous.

**U.S. State Right-to-Know Regulations**

This drug is regulated by the Food and Drug Administration and is therefore exempt from State Right-to-Know Regulations.

<b>16. OTHER INFORMATION</b>
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<b>Prepared By</b>	Sanofi Product Stewardship
<b>Issue Date</b>	17-July-2023
<b>Revision Date</b>	Not Applicable
<b>Revision Note</b>	Not Applicable

**Disclaimer**

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**End of Safety Data Sheet**