

US - OSHA SAFETY DATA SHEET

Issue Date 17-Apr-2015 Revision Date 11-July-2022 Version 8

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

Product identifier

Product Name Fluzone® Quadrivalent, Influenza Vaccine

Other means of identification

Product Information Single-dose vial in package of 10 vials

Single-dose, prefilled syringe, without needle 0.5 mL in package of 10

Multi-dose vial in package of one

Synonyms 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

1 Discovery Drive Swiftwater, PA 18370

Phone: 1-800-822-2463 (1-800-VACCINE)

Emergency telephone number

24 Hour Emergency Phone 1-703-741-5970 / 1-800-424-9300 CCN # 2118 (CHEMTREC)

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.

AppearanceClear and slightlyPhysical stateLiquidOdorNot available.

opalescent suspension

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.

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.

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 aiderDo 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.

^{*}Note: Only the multi-dose vial contains Thimerosal, a mercury derivative.

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

Physical state Liquid

Appearance Clear and slightly opalescent Odor Not available.

suspension

Clear to slightly opalescent Odor threshold Not available. Color

Remarks • Method **Property Values**

pH Not available.

Melting point/freezing point Not available.

Boiling point / boiling range Not available.

Flash point 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.

Other Information

Oxidizing properties

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

Hazardous polymerization Hazardous polymerization does not occur.

Not available.

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

Product Information No data available.

Inhalation No impact known or expected under normal use.

Eye contact No impact known or expected under normal use.

Skin Contact No impact known or expected under normal use.

Ingestion 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
Serious eye damage/eye irritation
Irritation
Corrosivity
Sensitization
Germ cell mutagenicity
Carcinogenicity
Not available.
Not available.
Not available.
Not available.
Not available.
Not available.

Reproductive toxicity

Available data with Fluzone Quadrivalent use in pregnant women are insufficient to inform

vaccine-associated risk of adverse developmental outcomes. A developmental and reproductive toxicity study was performed in female rabbits given a 0.5 mL/dose of Fluzone Quadrivalent prior to mating and during gestation (a single human dose is 0.5 mL). This study revealed no adverse effects to the fetus or pre-weaning development due to Fluzone

Quadrivalent. It is not known whether Fluzone Quadrivalent is excreted in human milk. Data are not available to assess the effects of Fluzone Quadrivalent on the breastfed infant or on

milk production/excretion.

Not available. **Developmental Toxicity 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.

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

15. REGULATORY INFORMATION

Not regulated.

US Federal Regulations

SARA 313

<u>ADN</u>

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 multi-dose vial contains thimerosal.

SARA 311/312 Hazard Categories

Acute health hazard No **Chronic Health Hazard** No Fire hazard No Sudden release of pressure hazard No **Reactive Hazard** No

<u>CWA (Clean Water Act)</u>
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	-	Х	-	-

Note: Only the multi-dose 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 multi-dose 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.

16. OTHER INFORMATION

Prepared By IES Engineers 17-Apr-2015 Revision Date 11-July-2022

Revision Note Updated Sanofi name and logo, Revision Date and Version. Revised by Sanofi.

Disclaimer

Sanofi considers 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. The information contained herein is designated only as guidance for safe handling, storage and use of the substance and is not a specification nor does it guarantee any specific properties. Only competent personnel, within a controlled environment should handle all chemicals. Sanofi cannot be held liable for any loss, injury or damage from contact with the product.

End of Safety Data Sheet