



# SAFETY DATA SHEET

## 1. Identification

**Product identifier**

**SHINGRIX PFS**

**Other means of identification**  
**Synonyms**

SHINGRIX PFS 0.5 mL \* SHINGRIX PREFILLED SYRINGES (PFS) 0.5 mL \* VACCINE FOR PREVENTION OF HERPES ZOSTER (SHINGLES) \* VARICELLA ZOSTER VIRUS (VZV) gE/AS01B VACCINE \* NDC 58160-849-43 \* NDC 58160-849-52 (CARTON OF 10) \* SHINGRIX, FORMULATED PRODUCT

**Recommended use**

Medicinal Product.

This safety data sheet (SDS) has been prepared in accordance with workplace safety standards which require identification of all known hazards of the material regardless of potential risk. The information is intended for people handling the material in the workplace. Warnings included may not apply in all cases. Needs may vary depending upon the potential for exposure in the workplace. The SDS is not intended to provide information relevant to final use of the material for the purpose intended. Consumers/Patients should consult prescribing information/package insert/product label or consult their chemist or physician.

**Recommended restrictions**

No other uses are advised.

**Manufacturer/Importer/Supplier/Distributor information**

**COMPANY NAME**

GSK

**Address:**

410 Blackwell Street  
Durham, NC, 27701

**Telephone:**

+1-888-825-5249 (GSK General Inquiries)  
+1-877-844-8872 (ViiV General Inquiries)

**Email:**

msds@gsk.com

**Website:**

www.gsk.com

## EMERGENCY CONTACTS

**Telephone:**

3E GLOBAL INCIDENT RESPONSE  
+(1) 760 476 3971 (In country)  
+(1) 760 476 3962 or +(1) 866 519 4752 (International)  
24/7; multi-language response

**Contract Number:**

334878

## 2. Hazard(s) identification

**Hazards for the product as sold**

**Physical hazards**

Not classified.

**Health hazards**

Not classified.

**Environmental hazards**

Not classified.

**OSHA defined hazards**

Not classified.

**Label elements**

**Hazard symbol**

None.

**Signal word**

None.

**Hazard statement**

The mixture does not meet the criteria for classification.

**Precautionary statement**

**Prevention**

Not available.

<b>Response</b>	Not available.
<b>Storage</b>	Not available.
<b>Disposal</b>	Not available.
<b>Hazard(s) not otherwise classified (HNOC)</b>	Caution - Pharmaceutical agent. See section 11 of the SDS for additional information on health hazards.
<b>Supplemental information</b>	21% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 21% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS No./Unique ID	%
SUCROSE	SUGAR CANE SUGAR BEET SUGAR CONFECTIONER'S SUGAR ALPHA-D-GLUCOPYRANOSIDE, BETA-D-FRUCTOFURANOSYL GRANULATED SUGAR SUCRALOX	57-50-1	20
SODIUM CHLORIDE	COMMON SALT ROCK SALT SODIUM MONOCHLORIDE SALT SEA SALT TABLE SALT SALT, WHITE CRYSTALS, SOLAR	7647-14-5	< 4.5
POTASSIUM PHOSPHATE MONOBASIC	POTASSIUM ACID PHOSPHATE POTASSIUM DIPHOSPHATE POTASSIUM BIPHOSPHATE POTASSIUM ORTHOPHOSPHATE MONOPOTASSIUM PHOSPHATE POTASSIUM DIHYDROGEN PHOSPHAT E POTASSIUM DIHYDROGEN ORTHOPHOSPHATE POTASSIUM PHOSPHATE, MONOBASIC	7778-77-0	< 0.6
CHOLESTEROL	CHOLEST-5-EN-3BETA-OL 5-CHOLESTEN-3BETA-OL CHOLESTERYL ALCOHOL CHOLESTERINE CHOLESTERIN 3BETA-CHOLEST-5-EN-3-OL CHOLEST-5-EN-3-OL (3BETA)- 5:6-CHOLESTEN-3BETA-OL	57-88-5	< 0.3

Chemical name	Common name and synonyms	CAS No./Unique ID	%
DISODIUM PHOSPHATE	DISODIUM HYDROGEN ORTHOPHOSPHATE SODIUM PHOSPHATE DIBASIC ANHYDROUS DISODIUM HYDROGEN PHOSPHATE PHOSPHORIC ACID, DISODIUM SALT SODIUM PHOSPHATE DIBASIC DIBASIC SODIUM PHOSPHATE DISODIUM MONOHYDROGEN PHOSPHATE DSP EXSICCATED SODIUM PHOSPHATE SODA PHOSPHATE DISODIUM PHOSPHORIC ACID SODIUM MONOHYDROGEN PHOSPHAT E DISODIUM ACID ORTHOPHOSPHATE DISODIUM HYDROPHOSPHATE HYDROGEN DISODIUM PHOSPHATE DISODIUM HYDROGEN PHOSPHATE ANHYDROUS SODIUM PHOSPHATE DIBASIC DISODIUM PHOSPHATE TRISODIUM PHOSPHATE	7558-79-4	< 0.2
POTASSIUM PHOSPHATE DIBASIC	PHOSPHORIC ACID, DIPOTASSIUM SAL T DIBASIC POTASSIUM PHOSPHATE DIPOTASSIUM HYDROGEN PHOSPHAT E DIPOTASSIUM MONOHYDROGEN PHOSPHATE DIPOTASSIUM MONOPHOSPHATE DIPOTASSIUM ORTHOPHOSPHATE DIPOTASSIUM PHOSPHATE HYDROGEN DIPOTASSIUM PHOSPHAT E POTASSIUM BIPHOSPHATE POTASSIUM MONOHYDROGEN PHOSPHATE POTASSIUM MONOPHOSPHATE DKP DIPOTASSIUM HYDROGENORTHOPHOSPHATE DIPOTASSIUM HYDROGEN ORTHOPHOSPHATE POTASSIUM PHOSPHATE, DIBASIC, ANHYDROUS POTASSIUM HYDROGEN ORTHOPHOSPHATE POTASSIUM HYDROGEN PHOSPHATE	7758-11-4	< 0.2
SORBITAN MONOOLEATE, ETHOXYLATED	POLYETHYLENE OXIDE SORBITAN MONO-OLEATE POLYOXYETHYLENE SORBITAN MONOOLEATE POLYOXYETHYLENE (20) SORBITAN MONO-OLEATE POLYOXYETHYLENE SORBITAN OLEAT E POLYSORBATE 80 POLYSORBATE 80, U.S.P. SORBIMACROGOL OLEATE TWEEN 80 TWEEN 81 TWEEN 80 A POLYOXYETHYLENE SORBITAN MONOOLEATE (POLYSORBATE 80) POLYSORBATE 80, USP	9005-65-6	0.08

Chemical name	Common name and synonyms	CAS No./Unique ID	%
RECOMBINANT PROTEIN gE		Unassigned	0.05
QS-21	QS21 POWDER QUENCHED OR DETOXIFIED QS-21 (DQ) SAPONIN ISOLATED FROM THE BARK OF QUILLAJA SAPONARIA MOLINA TRE E-(28-{O-D-APIO-BETA-D-FURANOSYL-(1,3)-O-BETA-D-XYLOPYRANOSYL-(1,4)-O-6-DEOXY-ALPHA-L-MANNOPYRANOSYL)-(1,2)-4-O-[5-(5-ALPHA-L-ARABINOFURANOSYLOXY-3-HYDROXY-6-METHYLOCTANOYLO-XY)-3-HYDROXY-6-METHYLOCTANOYL]-6-DEOXY-BETA-D-30B-D-GALACTOPYRANOSY (12) [B-D-XYLOPYRANOSYL(13)] B-D-GLUCURONOPYRANOSYLQUILAIC ACID 280B-D-APIOFURANOSYL (13) B-D-XYLOPYRANOSYL (14) LRHAMNOPYRANOSYL(12) 3(50) LARABINOFURANOSYL 3,5DIHYDROXY6METHYLOCTANOYL) 3,5DIHYDROXY6METHYLOCTANOYL) B-D-FUCOPYRAMOSIDE	141256-04-4	0.0062
PHOSPHATIDYL CHOLINE	Phospholipon 90 G	97281-47-5	0.0001
MONOPHOSPHORYL LIPID A (MPL ADJUVANT)	MONOPHOSPHORYL LIPID A (MPL ADJUVANT) FROM S MINNESOTA R595 MPL ACID MPL CRUDE MPL DETOXIFIED ENDOTOXIN PRODUCT CODE R-350 PRODUCT CODE R-351 MONOPHOSPHORYL LIPID A .ALPHA.-D-GLUCOPYRANOSE, 2-DEOXY-6-O-[2-DEOXY-2-[[[(3R)-1-OXO-3-[(1-OXODODECYL)OXY]TETRADECYL]AMINO]-3-O-[(3R)-1-OXO-3-[(1-OXOTETRADECYL)OXY]TETRADECYL]-4-O-PHOSPHONO-.BETA.-D-GLUCOPYRANOSYL]-2-[[[(3R)-3-HYDROXY-1-OXOTETRA	88598-53-2	<0.0001
SODIUM HYDROXIDE	CAUSTIC SODA LYE SODIUM HYDRATE HIDROXIDO SODICO HIDRÓXIDO DE SÓDIO CAUSTIC SODA SOLUTION Caustic soda (as NaOH) Soda lye Soda, caustic	1310-73-2	<0.0001
Other components below reportable levels			<74.5

#### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.

**Indication of immediate medical attention and special treatment needed** Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

**Suitable extinguishing media** Water. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions** Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** No unusual fire or explosion hazards noted.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up** Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling** Avoid prolonged exposure. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### GSK

Components	Type	Value	Form
CHOLESTEROL (CAS 57-88-5)	8 HR TWA	3000 mcg/m3	
DISODIUM PHOSPHATE (CAS 7558-79-4)	8 HR TWA	5000 mcg/m3	
PHOSPHATIDYL CHOLINE (CAS 97281-47-5)	OHC	1	
POTASSIUM PHOSPHATE DIBASIC (CAS 7758-11-4)	8 HR TWA	5000 mcg/m3	
POTASSIUM PHOSPHATE MONOBASIC (CAS 7778-77-0)	OHC	1	>1000 - <=5000 mcg/m3
QS-21 (CAS 141256-04-4)	OHC	4	>1 - <=10 mcg/m3

**GSK**

Components	Type	Value	Form
SODIUM CHLORIDE (CAS 7647-14-5)	OHC	1	>1000 - <=5000 mcg/m3
SORBITAN MONOOLEATE, ETHOXYLATED (CAS 9005-65-6)	OHC	1	>1000 - <=5000 mcg/m3 PROVISIONAL
SUCROSE (CAS 57-50-1)	8 HR TWA	3000 mcg/m3	

**US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
SODIUM HYDROXIDE (CAS 1310-73-2)	PEL	2 mg/m3	
SUCROSE (CAS 57-50-1)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.

**US. ACGIH Threshold Limit Values (TLV)**

Components	Type	Value
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3
SUCROSE (CAS 57-50-1)	TWA	10 mg/m3

**US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)**

Components	Type	Value	Form
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3	
SUCROSE (CAS 57-50-1)	TWA	5 mg/m3 10 mg/m3	Respirable. Total

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	General ventilation normally adequate. An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard Category and the outcome of a site- or operation-specific risk assessment.  GSK Exposure Control Band; OHC 4.

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

<b>Eye/face protection</b>	Not normally needed. If contact is likely, safety glasses with side shields are recommended.
<b>Skin protection</b>	
<b>Hand protection</b>	Not normally needed. Wear appropriate chemical resistant gloves.
<b>Other</b>	Not normally needed. Wear suitable protective clothing as protection against splashing or contamination.
<b>Respiratory protection</b>	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.

<b>General hygiene considerations</b>	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 to remove contaminants. For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional.
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**9. Physical and chemical properties**

<b>Physical state</b>	Liquid.
<b>Form</b>	Pre-filled syringe
<b>Color</b>	colorless to pale brownish.
<b>Odor</b>	Not available.

<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	Not available.
<b>Flammability</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
<b>Flash point</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>pH</b>	Not available.
<b>Kinematic viscosity</b>	Not available.
<b>Solubility</b>	
Solubility (water)	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Density and/or relative density</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Particle characteristics</b>	Not available.
<b>Other information</b>	
Explosive properties	Not available.
Oxidizing properties	Not available.
Percent volatile	73.3 % estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Not established.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. Expected to be a low ingestion hazard.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort.
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### Information on toxicological effects

<b>Acute toxicity</b>	Not known.
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Components	Species	Test Results
DISODIUM PHOSPHATE (CAS 7558-79-4)		
<u>Acute</u>		
Oral		
LD50	Rat	17 g/kg
MONOPHOSPHORYL LIPID A (MPL ADJUVANT) (CAS 88598-53-2)		
<u>Acute</u>		
Other		
LD	Rat	5 mg/kg Intra-peritoneal administration.
<u>Subacute</u>		
Other		
NOAEL	Rat	0.04 mg/kg/day, 7 Day Intravenous route
NOEL	Dog	0.006 mg/kg/day, 14 Day Intravenous route
PHOSPHATIDYL CHOLINE (CAS 97281-47-5)		
<u>Acute</u>		
Oral		
LD50	Rat	> 2000 mg/kg
POTASSIUM PHOSPHATE MONOBASIC (CAS 7778-77-0)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 300 mg/kg, 24 Hours
Oral		
LD50	Mouse	1700 mg/kg
SODIUM CHLORIDE (CAS 7647-14-5)		
<u>Acute</u>		
Oral		
LD50	Rat	3000 mg/kg
SODIUM HYDROXIDE (CAS 1310-73-2)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	1350 mg/kg
Oral		
LD50	Rat	104 - 340 mg/kg
<b>Skin corrosion/irritation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Corrosivity</b>		
SODIUM HYDROXIDE	Literature search Result: Causes severe burns.	
<b>Serious eye damage/eye irritation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Eye</b>		
SODIUM HYDROXIDE	Literature search Result: Causes severe burns.	
QS-21	Predicted Result: Pharmacological effect, inflammation.	
<b>Respiratory or skin sensitization</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Respiratory sensitization</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Skin sensitization</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.	



**Mutagenicity**

MONOPHOSPHORYL LIPID A (MPL ADJUVANT)	Ames Result: Negative
QS-21	Ames Result: Negative
MONOPHOSPHORYL LIPID A (MPL ADJUVANT)	Chromosomal Aberration Assay In Vitro Result: Negative
QS-21	In vivo Micronucleus Result: Negative Species: Rat
MONOPHOSPHORYL LIPID A (MPL ADJUVANT)	In vivo Micronucleus, Intra-muscular administration. Result: Negative
QS-21	Mouse lymphoma cell (L5178Y TK) Assay Result: Negative

**Carcinogenicity** Due to partial or complete lack of data the classification is not possible.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

CHOLESTEROL (CAS 57-88-5) 3 Not classifiable as to carcinogenicity to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity** Due to partial or complete lack of data the classification is not possible.

**Reproductivity**

MONOPHOSPHORYL LIPID A (MPL ADJUVANT)	Embryo-foetal development, sub-cutaneous administration. Result: No developmental toxicity. Species: Rabbit
	Embryo-foetal development, sub-cutaneous administration. Result: No developmental toxicity. Species: Rat
QS-21	Pre- and Post-natal development Result: Negative Species: Rabbit
	Pre- and Post-natal development Result: Negative Species: Rat
MONOPHOSPHORYL LIPID A (MPL ADJUVANT)	Pre- and Post-natal development, sub-cutaneous administration. Result: No developmental toxicity. Species: Rat

**Specific target organ toxicity - single exposure** Not assigned. Due to partial or complete lack of data the classification is not possible.

QS-21 Result: Respiratory irritant

**Specific target organ toxicity - repeated exposure** Not assigned. Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

**Chronic effects** Prolonged inhalation may be harmful.

**Further information** Caution - Pharmaceutical agent. Occupational exposure to the substance or mixture may cause adverse effects.

MONOPHOSPHORYL LIPID A (MPL ADJUVANT) Result: Respiratory irritation.  
Species: Rat

**12. Ecological information**

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.



## IATA

Not regulated as dangerous goods.

## IMDG

Not regulated as dangerous goods.

**Transport in bulk according to IMO instruments** Not applicable.

## 15. Regulatory information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### Toxic Substances Control Act (TSCA)

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

DISODIUM PHOSPHATE (CAS 7558-79-4)

SODIUM HYDROXIDE (CAS 1310-73-2)

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

### US state regulations

#### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

SODIUM HYDROXIDE (CAS 1310-73-2)

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	04-03-2025
Revision date	12-09-2025
Version #	03
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 0 Instability: 0
References	GSK Hazard Determination.
Disclaimer	The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.
Revision information	Product and Company Identification: Synonyms Composition / Information on Ingredients: Disclosure Overrides Exposure Controls / Personal Protection: OELs Exposure controls/personal protection: Appropriate engineering controls Toxicological information: Specific target organ toxicity - repeated exposure