# GSK

## SAFETY DATA SHEET

1. Identification

Product identifier MenACWY LYOPHILIZED VACCINE

Other means of identification

Product code PENMENVY VACCINE

Synonyms MenACWY AND MenB COMBINATION VACCINE \* PENMENVY COMBINATION VACCINE \* PENTA

COMBINATION VACCINE \* PENTA COMPONENT 1 of 2 \* PENMENVY COMPONENT 1 of 2 \* NDC 58160-730-03 LYOPHILIZED MenACWY \* MENINGOCOCCAL OLIGOSACCHARIDE, 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** 

3E GLOBAL INCIDENT RESPONSE

**Telephone:** +(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

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

OSHA defined hazards Combustible dust

Label elements

Hazard symbol None.

Signal word Warning

**Hazard statement** May form combustible dust concentrations in air.

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SDS US

**Precautionary statement** 

**Prevention** Prevent dust accumulation to minimize explosion hazard. Keep away from heat/sparks/open

flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and

receiving equipment. Observe good industrial hygiene practices.

Response Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to

extinguish.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

(s) not otherwise Assume that this material is capable of sustaining combustion.

Assume that this material is capable of being ignited by an electrostatic discharge.

Assume that this material is capable of producing a dust explosion if ignited as a dust cloud. Caution - Pharmaceutical agent. See section 11 of the SDS for additional information on health

hazards.

**Supplemental information** 100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

100% of the substance consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. 100% of the substance 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 number	%
SUCROSE	SUGAR CANE SUGAR BEET SUGAR CONFECTIONER'S SUGAR ALPHA-D-GLUCOPYRANOSIDE, BETA-D-FRUCTOFURANOSYL GRANULATED SUGAR SUCRALOX	57-50-1	96 - < 98
POTASSIUM PHOSPHATE MONOBASIC	POTASSIUM ACID PHOSPHATE POTASSIUM DIPHOSPHATE POTASSIUM BIPHOSPHATE POTASSIUM ORTHOPHOSPHATE MONOPOTASSIUM PHOSPHATE POTASSIUM DIHYDROGEN PHOSPHATE POTASSIUM DIHYDROGEN ORTHOPHOSPHATE POTASSIUM PHOSPHATE, MONOBASIC	7778-77-0	2 - < 4
MENINGOCOCCAL GROUP A OLIGOSACCHARIDE CONJUGATED TO CORYNEBACTERIUM DIPTHERIAE CRM 197 PROTEIN	MenA-CRM	Unassigned	0.08
MENINGOCOCCAL GROUP C OLIGOSACCHARIDE CONJUGATED TO CORYNEBACTERIUM DIPTHERIAE CRM 197 PROTEIN	MenC-CRM	Unassigned	0.04
MENINGOCOCCAL GROUP W-135 OLIGOSACCHARIDE CONJUGATED TO CORYNEBACTERIUM DIPHTHERIA CRM 197 PROTEIN	MenW-CRM	Unassigned	0.04
MENINGOCOCCAL GROUP Y OLIGOSACCHARIDE CONJUGATED TO CORYNEBACTERIUM DIPHTHERIAE CRM197 PROTEIN	MenY-CRM	Unassigned	0.04

## 4. First-aid measures

**Inhalation** If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if

cough or other symptoms develop. If breathing is difficult, trained personnel should give oxygen.

Immediately flush skin with plenty of water. Take off contaminated clothing and wash before reuse. Skin contact

Get medical attention if irritation develops and persists.

Eve contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Immediately call a poison center or doctor/physician. Do not induce vomiting without Ingestion

advice from poison control center.

Most important symptoms/effects, acute and

delayed

Dusts may irritate the respiratory tract, skin and eyes. Coughing. Dust may irritate the eyes and the respiratory system.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the current prescribing information or to the local poison control information center.

**General information** 

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Water fog. Alcohol resistant foam.

Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust.

Unsuitable extinguishing media

Specific hazards arising from the chemical

Do not use water jet as an extinguisher, as this will spread the fire. Carbon dioxide (CO2).

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so

equipment/instructions Specific methods

Fire fighting

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards

May form combustible dust concentrations in air. Assume that this material is capable of sustaining

combustion.

without risk.

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

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 significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Combustible dust clouds may be created where operations produce fine material (dust). Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Explosion-proof general and local exhaust ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Keep containers tightly closed in a dry, cool and well-ventilated place. 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	Туре	Value	Form
POTASSIUM PHOSPHATE MONOBASIC (CAS	OHC	1	>1000 - =5000 mcg/m3</td
7778-77-0)			

Components	Туре	Value	Form
SUCROSE (CAS 57-50-1)	PEL	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Value	s (TLV)		
Components	Type	Value	
SUCROSE (CAS 57-50-1)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to Cher	mical Hazards Recommended	Exposure Limits (REL)	
Components	Туре	Value	Form
SUCROSE (CAS 57-50-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Appropriate engineering controls

Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. The choice of an appropriate glove does not only depend

on its material but also on other quality features and is different from one producer to the other. Glove

selection must take into account any solvents and other hazards present.

Other Wear appropriate chemical resistant clothing.

(where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional.

## 9. Physical and chemical properties

**Appearance** 

Solid. Physical state Powder. **Form** Color Not available. Not available. Odor **Odor threshold** Not available. Not available. pН Melting point/freezing point Not available. Initial boiling point and boiling Not available. range

Not available. Flash point **Evaporation rate** Not available. Not available. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Not available. Vapor pressure Not available. Vapor density Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

Not explosive. **Explosive properties** Oxidizing properties Not oxidizing.

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, sparks and open flame. Contact with incompatible materials. Minimize dust

generation and accumulation.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. Skin contact Dust or powder may irritate the skin.

Dust may irritate the eyes. Eye contact

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics None known. Dusts may irritate the respiratory tract, skin and eyes.

#### Information on toxicological effects

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

Components **Species Test Results** 

POTASSIUM PHOSPHATE MONOBASIC (CAS 7778-77-0)

**Acute Dermal** 

LD50 Rabbit > 300 mg/kg, 24 Hours

Oral

LD50 Mouse 1700 mg/kg

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible. Serious eye damage/eye Due to partial or complete lack of data the classification is not possible.

irritation

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Respiratory or skin

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

sensitization

Respiratory sensitization

Skin sensitization

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

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

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IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

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.

Specific target organ toxicity -

single exposure

Not assigned. Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Not assigned. Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Not likely, due to the form of the product.

Chronic effects Prolonged inhalation may be harmful.

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

adverse effects.

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.

Persistence and degradability Not available.

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

SUCROSE 69 % BOD5

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

SUCROSE -3

Mobility in soilNo data available.Mobility in generalNot available.

Volatility

Henry's law

SUCROSE < 0 atm m<sup>2</sup>/mol Estimated

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Dispose of contents/container in

accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

Not regulated as a dangerous good.

Read safety instructions, SDS and emergency procedures before handling.

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#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,

29 CFR 1910.1200.

Not applicable.

## **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)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

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

Yes

Not listed

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

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

**Classified hazard** 

Combustible dust

categories

## 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

Not regulated.

(SDWA)

#### **US state regulations**

## **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.

## **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
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No

Country(s) or region Inventory name On inventory (yes/no)\*

Philippines Philippine Inventory of Chemicals and Chemical Substances No

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

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
 07-26-2018

 Revision date
 12-11-2024

Version # 04

Further information Refer to:

OSHA 3371-08 2009, Hazard Communication Guidance for Combustible Dusts

NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing,

Processing, and Handling of Combustible Particulate Solids

HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 2 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**This document has undergone significant changes and should be reviewed in its entirety.

Material name: MenACWY LYOPHILIZED VACCINE