# SAFETY DATA SHEET



### 1. Identification

Product identifier ENGERIX-B

Other means of identification

Synonyms ENGERIX B ADULT INJECTION 20 MCG/ML \* ENGERIX B 20mcg ADULT \* ENGERIX B (ADULT)

\* ENGERIX-B ADULT VACCINE \* ENGERIX B ADULTOS \* ENGERIX B ZA ODRASLE \* ENGERIX®-B ERWACHSENE \* ENGERIX®-B KINDER \* ENGERIX B 20 \* ENGERIX B

INJECTABLE SUSPENSION \* ENGERIX B SUSPENSIÓN INYECTABLE \* ENGERIX B VACUNA CONTRA LA HEPATITIS B RECOMBINANTE 20MCG/ML \* ENGERIX B PAEDIATRIC INJECTION 10 MCG/0.5 ML \* ENGERIX B 10 MCG \* ENGERIX B PAEDIATRIC \* ENGERIX B JUNIOR \* HEPATITIS B SURFACE ANTIGEN VACCINE \* HEPATITIS B (RECOMBINANT DNA) VACCINE

(ADSORBED)

Recommended use Medicinal Product.

This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant

to medicinal use of the product. In this instance patients should consult prescribing

information/package insert/product label or consult their pharmacist or physician. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate

safety data sheet for each ingredient.

Recommended restrictions No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information
COMPANY NAME GlaxoSmithKline US

Address: 5 Moore Drive

5 Moore Drive

Research Triangle Park, NC 27709 USA

**Telephone:** +1-888-825-5249 (General Inquiries)

Email:msds@gsk.comWebsite:www.gsk.com

**EMERGENCY CONTACTS** 

CHEMTREC EMERGENCY NUMBERS

**Telephone:** +(1) 703 527 3887 (International) 24/7; multi-language response

Contract Number: CCN9484

VERISK 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

#### Classified hazards

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

#### Label elements

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

### Hazard(s) not otherwise classified (HNOC)

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

## 3. Composition/information on ingredients

**Mixtures** 

Material name: ENGERIX-B SDS US

Chemical name	Common name and synonyms	CAS number	%
ALUMINIUM HYDROXIDE	ALUMIGEL ALUMINA HYDRATED ALUMINA TRIHYDRATE ALPHA-ALUMINA TRIHYDRATE ALUMINIC ACID ALUMINIUM HYDROXIDE ALUMINUM HYDRATE ALUMINUM HYDRATE ALUMINUM HYDROXIDE ALUMINUM HYDROXIDE ALUMINUM HYDROXIDE GEL ALUMINUM OXIDE TRIHYDRATE ALUMINUM TRIHYDRATE ALUMINUM TRIHYDRAXIDE	21645-51-2	1
DISODIUM HYDROGEN PHOSPHATE	DISODIUM HYDROGEN ORTHOPHOSPHATE PHOSPHORIC ACID, DISODIUM SALT DIBASIC SODIUM PHOSPHATE DISODIUM MONOHYDROGEN PHOSPHATE DSP EXSICCATED SODIUM PHOSPHATE SODA PHOSPHATE DISODIUM PHOSPHORIC ACID SODIUM MONOHYDROGEN PHOSPHATE DISODIUM ACID ORTHOPHOSPHATE DISODIUM HYDROPHOSPHATE DISODIUM HYDROPHOSPHATE HYDROGEN DISODIUM PHOSPHATE DISODIUM HYDROGEN PHOSPHATE ANHYDROUS SODIUM PHOSPHATE DIBASIC DISODIUM PHOSPHATE TRISODIUM PHOSPHATE	7558-79-4	1
HEPATITIS B VIRUS SURFACE ANTIGEN		Unassigned	<1
ETHYLMERCURITHIOSALICYLIC ACID SODIUM SALT	MERCURATE(1-), ETHYL(2-MERCAPTOBENZOATE(2-)-O, S)-, SODIUM MERCURY, ETHYL(HYDROGEN O-MERCAPTOBENZOATO)-, SODIUM SALT ETHYLMERCURITHIOSALICYLIC ACID, SODIUM SALT SODIUM ETHYLMERCURITHIOSALICYLATE MERCUROTHIOLATE MERTHIOLATE SODIUM THIMEROSAL	54-64-8	0.1
Other components below reportable			>96

## 4. First-aid measures

Inhalation Move to fresh air. If breathing is difficult, trained personnel should give oxygen. Call a physician if

symptoms develop or persist. Under normal conditions of intended use, this material is not

expected to be an inhalation hazard.

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

Get medical attention if symptoms occur.

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

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). If ingestion of a large

amount does occur, call a poison control center immediately. Do not induce vomiting without

advice from poison control center.

Most important

symptoms/effects, acute and

delayed

None known.

Material name: ENGERIX-B SDS US

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Indication of immediate medical attention and special treatment needed

**General information** 

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.

In the case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local

risk assessment.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

Specific methods

equipment/instructions

Move containers from fire area if you can do so without risk.

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

This product is non-flammable. General fire hazards

#### 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

No special control measures required for the normal handling of this product. Observe good

industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store at 2 to 8 °C (36 to 46 °F). Do not freeze. Dispose of properly if frozen. 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.

CCL	,

Components	Туре	Value	
DISODIUM HYDROGEN PHOSPHATE (CAS 7558-79-4)	8 HR TWA	5000 mcg/m3	
,	OHC	1	
US. OSHA Table Z-2 (29 CFR 1910.10	000)		
	/		
Components	Туре	Value	
•	-	Value 0.04 mg/m3	

Material name: ENGERIX-B SDS US

<b>US. ACGIH Threshold Limit Values</b>	<b>S</b>		
Components	Туре	Value	Form
ALUMINIUM HYDROXIDE (CAS 21645-51-2)	TWA	1 mg/m3	Respirable fraction.
ETHYLMERCURITHIOSALI CYLIC ACID SODIUM SALT (CAS 54-64-8)	STEL	0.03 mg/m3	
,	TWA	0.01 mg/m3	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
ETHYLMERCURITHIOSALI CYLIC ACID SODIUM SALT (CAS 54-64-8)	STEL	0.03 mg/m3	
,	TWA	0.01 mg/m3	

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

**Exposure guidelines** 

### US - California OELs: Skin designation

ETHYLMERCURITHIOSALICYLIC ACID SODIUM SALT Can be absorbed through the skin. (CAS 54-64-8)

US - Tennessee OELs: Skin designation

ETHYLMERCURITHIOSALICYLIC ACID SODIUM SALT Can be absorbed through the skin.

(CAS 54-64-8)

## **US ACGIH Threshold Limit Values: Skin designation**

ETHYLMERCURITHIOSALICYLIC ACID SODIUM SALT Can be absorbed through the skin. (CAS 54-64-8)

#### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

ETHYLMERCURITHIOSALICYLIC ACID SODIUM SALT Can be absorbed through the skin. (CAS 54-64-8)

Appropriate engineering

controls

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. General ventilation normally adequate.

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

Eye/face protection Not normally needed. If contact is likely, safety glasses with side shields are recommended.

Skin protection

**Hand protection** Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

Other Not normally needed. Wear suitable protective clothing as protection against splashing or

contamination.

Respiratory protection No personal respiratory protective equipment normally required. Use a NIOSH/MSHA approved

respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

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

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 to remove contaminants. For advice on suitable monitoring methods, seek guidance

from a qualified environment, health and safety professional.

### 9. Physical and chemical properties

Appearance

Physical state Liquid.

**Form** Suspension.Pre-filled syringe.

Vial.

Color Turbid. White
Odor Not available.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Material name: ENGERIX-B SDS US

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

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

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Explosive properties**Not explosive. **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. DO NOT FREEZE - dispose of properly if frozen.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid**Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

None known. 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 Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

**Skin contact** Health injuries are not known or expected under normal use.

**Eye contact** Health injuries are not known or expected under normal use. Direct contact with eyes may cause

temporary irritation.

Ingestion Health injuries are not known or expected under normal use. May be harmful 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.

#### Information on toxicological effects

**Acute toxicity** Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components Species Test Results

DISODIUM HYDROGEN PHOSPHATE (CAS 7558-79-4)

Acute Oral

LD50 Rat 17 g/kg

Material name: ENGERIX-B

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**Health injuries are not known or expected under normal use.

Serious eye damage/eye

irritation

Health injuries are not known or expected under normal use. Direct contact with eyes may cause

temporary irritation.

Respiratory or skin sensitization

**Respiratory sensitization** No studies have been conducted.

**Skin sensitization** None known. This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Carcinogenic effects are not expected as a result of occupational exposure. Not classifiable as to

carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

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

Not listed.

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity -

single exposure

Not assigned.

Specific target organ toxicity -

repeated exposure

Not assigned.

Aspiration hazard Not established.

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

**Further information** 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.

Components	Species	Test Results	
ALUMINIUM HYDROXIDE (CA	AS 21645-51-2)		
Aquatic			

Aquatic

Acute

Algae NOEC Green algae (Selenastrum > 100 mg/l, 72 hours

capricornutum)

Crustacea NOEC Water flea (Daphnia magna) > 100 mg/l, 48 hours

Fish NOEC Brown trout (Adult Salmo trutta) > 100 mg/l, 96 hours Static renewal test

DISODIUM HYDROGEN PHOSPHATE (CAS 7558-79-4)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) 252 mg/l

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Mobility in general
Other adverse effects
Not available.
Not available.
Not available.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not

discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable

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.

Material name: ENGERIX-B SDS US

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

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 (see:

Disposal instructions). Avoid discharge into water courses or onto the ground.

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.

Not available.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

**US federal regulations** 

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

DISODIUM HYDROGEN PHOSPHATE (CAS 7558-79-4) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

ETHYLMERCURITHIOSALICYLIC ACID SODIUM SALT (CAS 54-64-8)

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

WARNING: This product contains a chemical known to the State of California to cause birth

defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

ETHYLMERCURITHIOSALICYLIC ACID SODIUM Listed: July 1, 1990

SALT (CAS 54-64-8)

**International Inventories** 

Country(s) or regionInventory nameOn inventory (yes/no)\*AustraliaAustralian Inventory of Chemical Substances (AICS)No

Canada Domestic Substances List (DSL)

Material name: ENGERIX-B SDS US

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

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

New Zealand Inventory

Inventory name

Issue date 05-29-2018 05-29-2018 **Revision date** 

Version # 18

Country(s) or region

New Zealand

Philippines

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS®** ratings Health: 1

Flammability: 0 Physical hazard: 0

Health: 1 **NFPA** ratings

Flammability: 0 Instability: 0

References **GSK Hazard Determination** 

The information and recommendations in this safety data sheet are, to the best of our knowledge, Disclaimer

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: ENGERIX-B SDS US

On inventory (yes/no)\*

No

No

No

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).