# SAFETY DATA SHEET



#### 1. Identification

**Product identifier ROTARIX DILUENT** 

Other means of identification

**Synonyms** ROTARIX VACCINE DILUENT \* HRV VACCINE DILUENT

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.

No other uses are advised. Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

GlaxoSmithKline US

5 Moore Drive

Research Triangle Park, NC 27709 USA

US General Information (normal business hours): +1-888-825-5249

Email Address: msds@gsk.com Website: www.gsk.com **EMERGENCY PHONE NUMBERS -**TRANSPORT EMERGENCIES:

US / International toll call +1 703 527 3887

available 24 hrs/7 days; multi-language response

## 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**

Chemical name	Common name and synonyms	CAS number	%
CALCIUM CARBONATE	CARBONIC ACID, CALCIUM SALT * CALCIUM MONOCARBONATE * PRECIPITATED CALCIUM CARBONATE * CHALK	471-34-1	6
XANTHAN GUM	ACTIGUM CX 9 * BIOPOLYMER XB-23 XANTHAN GUM * BIOZAN R * ENORFLO X * FLOCON 1035 * GALAXY XB * KELFLO * KELTROL (GUM) * KELZAN * KENTROL * POLYSACCHARIDE B 1459 * RHODOPOL 23 * XANFLOOD * XANTHOMONAS GUM	11138-66-2	<1.0

Other components below reportable levels

>93

#### 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.

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

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

Get medical attention if symptoms occur.

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

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

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

advice from poison control center.

None known.

risk assessment.

None known.

Most important

symptoms/effects, acute and

delaved

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

## 5. Fire-fighting measures

Suitable extinguishing media

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

Unsuitable extinguishing

media

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 This product is non-flammable.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. 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** 

7. Handling and storage

Precautions for safe handling

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

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

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

### 8. Exposure controls/personal protection

### Occupational exposure limits

Not established

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
CALCIUM CARBONATE (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.

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US. OSHA Table Z-1 Limits for Air Contaminants (29)	) CFR	1910.1	1000)
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Components	Туре	Value	Form	
		15 mg/m3	Total dust.	
US. NIOSH: Pocket Guide to Che Components	emical Hazards Type	Value	Form	
CALCIUM CARBONATE (CAS 471-34-1)	TWA	5 mg/m3	Respirable.	
,		10 ma/m3	Total	

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

**Exposure guidelines** 

Appropriate engineering General ventilation normally adequate. An Exposure Control Approach (ECA) is established for controls

operations involving this material based upon the OEL/Occupational Hazard Category and the

outcome of a site- or operation-specific risk assessment.

Individual protection measures, such as personal protective equipment

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

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.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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** Pre-filled syringe.

Color Colourless. Odor Not available. Not available. **Odor threshold** Not available. pН Melting point/freezing point Not available.

Initial boiling point and boiling

range

Not available.

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

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

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

Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

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Partition coefficient (n-octanol/water)

Not available.

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

## 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**Contact with incompatible materials.

Incompatible materials Acids. Fluorine.

Hazardous decomposition

None known. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

products

## 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

CALCIUM CARBONATE (CAS 471-34-1)

Acute

Oral

LD50 Rat 6450 mg/kg

XANTHAN GUM (CAS 11138-66-2)

Acute Inhalation

LC50 Rat

> 21 mg/l, 1 hour exposure

Oral

LD50 Rat > 5000 mg/kg

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

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

**irritation** 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 Not classifiable as to carcinogenicity to humans. Carcinogenic effects are not expected as a result

of occupational exposure.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

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.

**Further information** Occupational exposure to the substance or mixture may cause adverse effects.

## 12. Ecological information

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

Components Species Test Results

CALCIUM CARBONATE (CAS 471-34-1)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) > 56000 mg/l, 24 hours

XANTHAN GUM (CAS 11138-66-2)

**Aquatic** 

Acute

Fish EC50 Rainbow trout (Adult Oncorhyncus 420 mg/l, 96 hours Static test

mvkiss)

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

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

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

emptied.

### 14. Transport information

DOT

Not regulated as a dangerous good.

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

MARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine environment. These materials may not be transported in bulk.

### 15. Regulatory information

US federal regulations

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

Not regulated.

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

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

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

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 No

chemical

### 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

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### **US. Massachusetts RTK - Substance List**

CALCIUM CARBONATE (CAS 471-34-1)

## US. New Jersey Worker and Community Right-to-Know Act

CALCIUM CARBONATE (CAS 471-34-1)

## US. Pennsylvania Worker and Community Right-to-Know Law

CALCIUM CARBONATE (CAS 471-34-1)

#### **US. Rhode Island RTK**

Not regulated.

#### **US. 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.

#### **International Inventories**

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

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

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)
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

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

 Issue date
 03-25-2015

 Revision date
 03-25-2015

Version # 06

country(s).

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

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: Product and Company Identification

Composition / Information on Ingredients: Undisclosed Ingredient Statement

Physical & Chemical Properties:

Transport Information:

Regulatory Information: United States

Material name: ROTARIX DILUENT SDS US