

# SAFETY DATA SHEET

# 1. Identification

Product identifier	BOOSTRIX		
Other means of identification			
Synonyms	BOOSTRIX DTPa * BOOSTRIX DTPa JERINGA * BOOSTRIX FERTIGSPRITZE * BOOSTRIX INJECTION * BOOSTRIX JERINGA PRELLENADA * BOOSTRIX PFS * BOOSTRIX SIRINGA PRERIEMPITA * BOOSTRIX Tdpa IMPFSTOFF ZUR AUFFRISCHUNG * REFORTRIX * DIPHTHERIA, TETANUS AND ACELLULAR PERTUSSIS ADSORBED VACCINE		
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/Suppli	er/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: mww.gsk.com EMERGENCY PHONE NUMBERS - TRANSPORT EMERGENCIES::		

+1 703 527 3887

# 2. Hazard(s) identification

# **Classified hazards**

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

US / International toll call

# Label elements

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

available 24 hrs/7 days; multi-language response

# 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	%
ALUMINIUM HYDROXIDE	AF 260 * ALCOA 331 * ALCOA C 30BF * ALUMIGEL * ALUMINA HYDRATED * ALUMINA TRIHYDRATE * ALPHA-ALUMINA TRIHYDRATE * ALUMINIC ACID * ALUMINIUM HYDROXIDE * ALUMINUM HYDRATE * ALUMINUM(III) HYDROXIDE * ALUMINUM HYDROXIDE GEL * ALUMINUM OXIDE TRIHYDRATE * ALUMINUM TRIHYDRATE * ALUMINUM TRIHYDROXIDE * ALUSAL * AMBEROL ST 140F * AMPHOJEL * BACO AF 260 * BRITISH ALUMINUM AF 260 * C 31 * C 33 * C 31C * C 4D * C 31F * C-31-F * C.I. 77002 * GHA 331 * GHA 332 * H 46 * HIGILITE * HIGILITE H 32 * HIGILITE H 42 * HIGILITE H 31S * HYCHOL 705 * HYDRAL 705 * HYDRAL 710 * HYDRATED ALUMINA * LIQUIGEL * MARTINAL * P 30BF * PGA * TRIHYDRATED ALUMINUM	21645-51-2	1
SODIUM CHLORIDE	COMMON SALT * HALITE * ROCK SALT * SODIUM MONOCHLORIDE * SALT * SEA SALT * TABLE SALT * SODIUM CHLORIDE (NaCI) * CINa * BULK INDUSTRIAL CRUDE SOLAR * SALT, WHITE CRYSTALS, SOLAR * OHS21105 * RTECS VZ4725000 * 329 (GW ACN)	7647-14-5	1
DIPHTHERIA TOXOID		Unassigned	<1
FILAMENTOUS HAEMAGGLUTININ		Unassigned	<1
PERTACTIN (69 KDA OUTER MEMBRANE PROTEIN-69K)		Unassigned	<1
PERTUSSIS TOXIN	HISTAMINE-SENSITIZING FACTOR * IAP * ISLET ACTIVATING PROTEIN * LYMPHOCYTOSIS-PROMOTING FACTOR	70323-44-3	<1
TETANUS TOXOID		Unassigned	<1
Other components below reportab	le levels		91

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth thoroughly. Get medical advice/attention if you feel unwell. Do not induce vomiting.
Most important symptoms/effects, acute and delayed	None known.
Indication of immediate medical attention and special treatment needed	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 centre.
General information	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	Foam. Dry chemical powder. Carbon dioxide (CO2). Water.
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	This product is expected to be non-combustible.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	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.	
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 th possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or ear 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.	
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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.	

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Do not freeze. Dispose of properly if frozen. Conditions for safe storage, including any incompatibilities

# 8. Exposure controls/personal protection

### **Occupational exposure limits**

GSK Components	Туре	Value	Note
PERTUSSIS TOXIN (CAS 70323-44-3)	OHC	5	PROVISIONAL
US. ACGIH Threshold Limit Components	Values Type	Value	Form
ALUMINIUM HYDROXIDE (CAS 21645-51-2)	TWA	1 mg/m3	Respirable fraction.
Biological limit values	No biological exposure limits noted for th	e ingredient(s).	
Appropriate engineering controls	No particular ventilation requirements. 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.		
Individual protection measures,	such as personal protective equipment	2	
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.		
Hand protection	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.		
Skin protection			
Other	Wear suitable protective clothing.		
<b>Respiratory protection</b>	No personal respiratory protective equipment normally required.		
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.		

# 9. Physical and chemical properties

### Appearance

**Physical state** 

Liquid.

Form	Pre-filled syringe.
	or Vial.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
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 exp	losive 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.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Percent volatile	91 % estimated
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.
Dessibility of bererdous	No dengerous reaction known under conditions of normal use

Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials. Do not freeze.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

# 11. Toxicological information

# Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
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.
Symptoms related to the physical, chemical and toxicological characteristics	None known.

Information on toxicological effects

Acute toxicity	Health injuries are not known or expected under normal use.		
Components	Species	Test Results	
SODIUM CHLORIDE (CAS 7647-	-14-5)		
Acute			
Oral			
LD50	Rat	3000 mg/kg	
* Estimates for product may b	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.		
Respiratory or skin sensitizatio	n		
<b>Respiratory sensitization</b>	Not established.		
Skin sensitization	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.		
OSHA Specifically Regulate Not listed.	ed Substances (29 CFR 1910.100	)1-1050)	
Reproductive toxicity	Contains no ingredient listed as toxic to reproduction		
Specific target organ toxicity - single exposure	None known.		
Specific target organ toxicity - repeated exposure	None known.		
Aspiration hazard	Not likely, due to the form of the	product.	
Further information	Caution - Pharmaceutical agent		

# 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 HYDRO	XIDE (CAS 21645-5	1-2)	
Aquatic			
Acute			
Algae	NOEC	Green algae (Selenastrum capricornutum)	> 100 mg/l, 72 hours
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 tes
SODIUM CHLORIDE	(CAS 7647-14-5)		
Aquatic			
Acute			
Algae	EC50	Algae (Nitscheria linearis)	2430 mg/l, 5 days
Crustacea	EC50	Water flea (Daphnia magna)	3310 mg/l, 48 hours Static test
Fish	EC50	Bluegill sunfish (Juvenile Lepomis macrochirus)	1295 mg/l, 96 hours Static test
		Fathead minnow (Juvenile Pimephales promelas)	6390 mg/l, 96 hours Static test
		Goldfish (Adult Carassius auratus)	7000 mg/l, 96 hours
		Mosquito fish (Adult Gambusia affinis)	17550 mg/l, 96 hours Static test

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.
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Mobility in soil	No data available.
Other adverse effects	Not available.

13. Disposal consideration	ns
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
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).
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.

### ΙΑΤΑ

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

Transport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeMARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine<br/>environment. These materials may not be transported in bulk.

# 15. Regulatory information

US federal regulations	One or more components a	are not listed on TSCA	۹.	
TSCA Section 12(b) Expor	t Notification (40 CFR 707, S	ubpt. D)		
Not regulated.				
CERCLA Hazardous Subs	tance List (40 CFR 302.4)			
Not listed.				
SARA 304 Emergency rele	ase notification			
Not regulated.	ted Cubetenese (20 CED 404)	0 4004 4050)		
Not listed.	ted Substances (29 CFR 191)	0.1001-1050)		
	Deputherization Act of 1096 (			
Superfund Amendments and F	Immediate Hazard - No	SARA)		
Hazard categories	Delayed Hazard - No			
	Fire Hazard - No			
	Pressure Hazard - No			
	Reactivity Hazard - No			
SARA 302 Extremely haza	rdous substance			
Not listed.				
SARA 311/312 Hazardous	No			
chemical				
chemical		CAS number	% by wt.	
chemical SARA 313 (TRI reporting)		<b>CAS number</b> 122-99-6	% by wt. 1	
chemical SARA 313 (TRI reporting) Chemical name			-	
chemical SARA 313 (TRI reporting) Chemical name 2-PHENOXYETHANOL Other federal regulations	on 112 Hazardous Air Polluta	122-99-6	-	
chemical SARA 313 (TRI reporting) Chemical name 2-PHENOXYETHANOL Other federal regulations		122-99-6	-	
chemical SARA 313 (TRI reporting) Chemical name 2-PHENOXYETHANOL Other federal regulations Clean Air Act (CAA) Section Not regulated.		122-99-6	1	
chemical SARA 313 (TRI reporting) Chemical name 2-PHENOXYETHANOL Other federal regulations Clean Air Act (CAA) Section Not regulated.	on 112 Hazardous Air Polluta	122-99-6	1	

### **US state regulations**

**US. Massachusetts RTK - Substance List** 

Not regulated.

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

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

### **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)	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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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	07-02-2014
Revision date	07-02-2014
Version #	12
Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 0 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 0 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.