

SAFETY DATA SHEET

1. Identification	
Product identifier	Q-QIV+ QUADRIVALENT VACCINE
Other means of identification	Not available.
Synonym(s)	QUADRIVALENT INFLUENZA VACCINE WITH THIMEROSAL * FLULAVAL QUADRIVALENT * INFLUENZA VIRUS HEMAGLUTININ
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	r/Distributor information
Manufacturer	
	GlaxoSmithKline US 5 Moore Drive Research Triangle Park, NC 27709 USA US Congrad Information (normal business bours): +1 888 825 5249

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

Hazardous components Chemical name	Common name and synonyms	CAS number	%
ETHYLMERCURITHIOSALICYLIC ACID SODIUM SALT	MERCURATE(1-), ETHYL(2-MERCAPTOBENZOATE(2-)-O,S)-, SODIUM MERCURY, ETHYL(HYDROGEN O-MERCAPTOBENZOATO)-, SODIUM SAL1 ETHYL(2-MERCAPTOBENZOATO(2-)-O,S)-I SODIUM ((O-CARBOXYPHENYL)THIO)ETHYLMERCI SODIUM SALT ETHYLMERCURITHIOSALICYLIC ACID, SODIUM SALT ETHYL(HYDROGEN O-MERCAPTOBENZOATO)MERCURY SODIUM SALT ETHYL (SODIUM-O-MERCAPTOBENZOATE)MERC SODIUM SALT ETHYL (SODIUM-O-MERCAPTOBENZOATE)MERC SODIUM ETHYLMERCURITHIOSALICYLATI MERCUROTHIOLATE MERTHIOLATE SODIUM MERTHIOLATE SET THIMEROSAL C9H9HGNAO2S OHS09625 RTECS OV8400000	54-64-8	<0.2
A/CALIFORNIA/7/2009 NYMC X-179A (H1N1)		Unassigned	0.002
A/TEXAS/50/2012 NYMC X-223A (H3N2) (AN A/VICTORIA/361/2011- LIKE VIRUS)			0.002

B/BRISBANE/60/2008	Unassigned	0.002
B/MASSACHUSETTS/2/2012 NYMC BX-51B		0.002
Other components below reportable levels		>99.0

Other components below reportable levels

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

4. First-aid measures

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Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is difficult, trained personnel should give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	Rinse mouth thoroughly. Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	The following adverse effects have been noted with therapeutic use of this material: anorexia; irritability; drowsiness; headache; sweating; joint pain; fatigue; shivering; sore throat; coughing; malaise.
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 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	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
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	Move containers from fire area if you can do so without risk.

Fire-fighting equipment/instructions

Specific methods	Move containers from fire area if you can do so without risk.		
6. Accidental release mea	sures		
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. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.		
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. 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 in original containers for re-use. Water can be used for clean-up and decontamination operations. Sodium hypochlorite (bleach) or other strong oxidizers can be used in clean-up decontamination operations. Contaminated surfaces should be washed with water, then bleach or other oxidizing solution, followed by another water wash. For waste disposal, see section 13 of the MSDS.		
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.		
7. Handling and storage			
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.		
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the MSDS). Store at 2 to 8 °C (36 to 46 °F). Do not freeze. Dispose of properly if frozen.		

8. Exposure controls/personal protection

Occupational exposure limits

GSK Not established

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Туре)	v	alue
ETHYLMERCURITHIOSAL CYLIC ACID SODIUM SALT (CAS 54-64-8)	I Ceili	ng	0	.04 mg/m3
. ,	TWA	N N	0	.01 mg/m3
US. ACGIH Threshold Lin	nit Values			
Components	Туре	9	v	alue
ETHYLMERCURITHIOSAL CYLIC ACID SODIUM SALT (CAS 54-64-8)	I STE	L	0	.03 mg/m3
US. NIOSH: Pocket Guide	to Chemical Hazards			
Components	Туре	9	v	alue
ETHYLMERCURITHIOSAL CYLIC ACID SODIUM SALT (CAS 54-64-8)	I STE	L	0	.03 mg/m3
. ,	TWA	۱.	0	.01 mg/m3
logical limit values				
ACGIH Biological Exposu	ire Indices			
Components	Value	Determinant	Specimen	Sampling Time
ETHYLMERCURITHIOSAL CYLIC ACID SODIUM SALT (CAS 54-64-8)	l 35 µg/g	Total inorganic mercury	Creatinine ir urine	ן *
· · · · ·	15 micrograms/liter	Total inorganic mercury	Blood	*
	ase see the source doc			

Material name: Q-QIV+ QUADRIVALENT VACCINE 135741 Version #: 01 Issue date: 10-31-2013

Exposure guidelines

US - Tennesse OELs: 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) No particular ventilation requirements.

Appropriate engineering

controls

Individual protection measures, such as personal protective equipment

Eye/face protection	If contact is likely, safety glasses with side shields are recommended.		
Hand protection	Use personal protective equipment as required. 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	Use personal protective equipment as required.		
Respiratory protection	Not available.		
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

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Appearance	
Physical state	Liquid.
Form	Vaccine.
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 expl	osive 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)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity **Chemical stability**

The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions. DO NOT FREEZE - dispose of properly if frozen.

Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological informat	tion
Information on likely routes of e	xposure
Ingestion	Health injuries are not known or expected under normal use.
Inhalation	Health injuries are not known or expected under normal use.
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	The following adverse effects have been noted with therapeutic use of this material: anorexia; irritability; drowsiness; headache; sweating; fatigue; joint pain; shivering; sore throat; coughing; malaise.
Information on toxicological effe	ects
Acute toxicity	Health injuries are not known or expected under normal use.
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 sensitization	None known.
Skin sensitization	Not available.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Health injuries are not known or expected under normal use.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects. Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.
Specific target organ toxicity - single exposure	None known.
Specific target organ toxicity - repeated exposure	None known.
Aspiration hazard	None known.
Chronic effects	None known.
Further information	Caution - Pharmaceutical agent.

12. Ecological information

EcotoxicityNo information is available about the potential of this product to produce adverse environmental
effects.Persistence and degradabilityNo data is available on the degradability of this product.Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.Other adverse effectsNot available.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. The disposal method for rejected products/returned goods must ensure that they cannot be re-sold or re-used.
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 a dangerous good.

IMDG

Not regulated as a dangerous good.

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

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Australia	Australian Inventory of Chemical Substances (AICS)	No
Country(s) or region	Inventory name	On inventory (yes/no)*
rnational Inventories		
•	n 65 - CRT: Listed date/Developmental toxin SALICYLIC ACID SODIUM SALT Listed: July 1, 1990	
harm.		•
•	ct contains a chemical known to the State of California to cause car	ncer and birth defects or other reprod
US. California Proposition		
	SALICYLIC ACID SODIUM SALT (CAS 54-64-8)	
Not regulated.		
US. Pennsylvania RTK - Ha	azardous Substances	
(CAS 54-64-8)	SALICYLIC ACID SODIUM SALT 500 lbs	
US. New Jersey Worker ar	nd Community Right-to-Know Act	
	SALICYLIC ACID SODIUM SALT (CAS 54-64-8)	
state regulations US. Massachusetts RTK -	Substance List	
Food and Drug Administration (FDA)	Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.	
Not regulated.		
	on 112(r) Accidental Release Prevention (40 CFR 68.130)	
· · ·	SALICYLIC ACID SODIUM SALT (CAS 54-64-8)	
•	on 112 Hazardous Air Pollutants (HAPs) List	
chemical er federal regulations		
SARA 311/312 Hazardous	No	
SARA 302 Extremely hazardous substance	No	
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
На	azard categories	Delayed Hazard - No Fire Hazard - No

Country(s) or region	Inventory name	On inventory (yes/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	10-31-2013
Version #	01
Further information	This material has not been assessed for HMIS or NFPA ratings.
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.