SAFETY DATA SHEET



1. Identification

Product identifier HAVRIX ADULT

Other means of identification

Synonyms HAVRIX ADULT INJECTION 1440 EL U/ML * HAVRIX 1440 * HAVRIX MONODOSE * VIRAXIN

ADULT INJECTION 1440 EL U/ML * HAV VACCINE * HEPATOVIRUS VACCINE * HEPATITIS A

(INACTIVATED) 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

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

CHEMTREC EMERGENCY PHONE NUMBERS -

TRANSPORT EMERGENCIES: Customer Number: CCN9484

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	%
2-PHENOXYETHANOL	AROSOL DOWANOL EP DOWANOL EPH EMERESSENCE 1160 EMERY 6705 ETHYLENE GLYCOL MONOPHENYL ETHER ETHYLENE GLYCOL PHENYL ETHER 2- FENOXYETHANOL (CZECH) FENYL-CELLOSOLVE (CZECH) FENYL-CELLOSOLVE (CZECH) GLYCOL MONOPHENYL ETHER BETA-HYDROXYETHYL PHENYL ETHE R 1-HYDROXY-2-PHENOXYETHANE PHENOXETHOL PHENOXETHANOL 2-PHENOXYETHANOL PHENOXYETHYL ALCOHOL PHENOXYTOL PHENYL CELLOSOLVE PHENYLMONOGLYCOL ETHER	122-99-6	1
SODIUM PHOSPHATE, DIBASIC	ROSE ETHER PHOSPHORIC ACID, DISODIUM SALT, HYDRATE	10140-65-5	1
HEPATITIS A VIRUS INACTIVATED	HEPATITIS A VIRUS INACTIVATED	Unassigned	<1
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 TRIHYDROXIDE	21645-51-2	0.1
POTASSIUM CHLORIDE	POTASSIUM CHLORIDE (KCL) POTASSIUM MONOCHLORIDE SUPER K (SALT) POTASSIUM MURIATE	7447-40-7	0.1
POTASSIUM PHOSPHATE MONOBASIC	POTASSIUM ACID PHOSPHATE POTASSIUM DIPHOSPHATE POTASSIUM BIPHOSPHATE POTASSIUM ORTHOPHOSPHATE MONOPOTASSIUM PHOSPHATE POTASSIUM DIHYDROGEN PHOSPHAT E POTASSIUM DIHYDROGEN ORTHOPHOSPHATE POTASSIUM PHOSPHATE, MONOBASIC	7778-77-0	0.1

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

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.

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

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.

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 center.

General information

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.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

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

None known.

media

During fire, gases hazardous to health may be formed.

the chemical Special protective equipment

Specific hazards arising from

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

and precautions for firefighters Fire fighting

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

equipment/instructions 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

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.

GSK

Components	Туре	Value	Note
POTASSIUM CHLORIDE (CAS 7447-40-7)	8 HR TWA	5000 mcg/m3	
,	OHC	1	
POTASSIUM PHOSPHATE MONOBASIC (CAS 7778-77-0)	OHC	1	>1000 - =5000 mcg/m3</td
SODIUM PHOSPHATE, DIBASIC (CAS 10140-65-5)	OHC	1	>1000 - =5000 mcg/m3</td

Material name: HAVRIX ADULT

US. ACGIH Threshold Limit Values

Form Value Components **Type** ALUMINIUM HYDROXIDE TWA 1 mg/m3 Respirable fraction.

(CAS 21645-51-2) **Biological limit values**

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

Exposure guidelines

Appropriate engineering

controls

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

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

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

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** Vial. and

Pre-filled syringe.

Milky. White Color Not available. Odor **Odor threshold** Not available. pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

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

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

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

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

Solubility(ies)

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

(n-octanol/water)

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

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Not available. **Viscosity**

Other information

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

10. Stability and reactivity

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

Material is stable under normal conditions. DO NOT FREEZE - dispose of properly if frozen. Chemical stability

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.

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

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**

POTASSIUM CHLORIDE (CAS 7447-40-7)

Acute Oral

LD50 Rat 2600 mg/kg

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.

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

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

mutagenic or genotoxic.

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

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 -Not assigned.

single exposure

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^{*} Estimates for product may be based on additional component data not shown.

Specific target organ toxicity -

repeated exposure

Not assigned.

Aspiration hazard

Not established.

Chronic effects

Not expected to be hazardous by WHMIS criteria.

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 (CAS 21645-51-2)					
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 test		
POTASSIUM CHLOR	IDE (CAS 7447-40-7	7)			
Aquatic					
Acute					
Algae	NOEC	Green algae (Chlorella vulgaris)	600 mg/l, 4 months		
Crustacea	EC50	Water flea (Daphnia magna)	83 mg/l, 48 hours Static test		
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	951 mg/l, 96 hours Static test		
		Channel catfish (Adult Ictalurus punctatus)	720 mg/l, 48 hours Static test		
		Fathead minnow (Adult Pimephales promelas)	880 mg/l, 96 hours Static test		
		Mosquito fish (Adult Gambusia affinis)	435 mg/l, 96 hours Static test		

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

Not available.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-PHENOXYETHANOL

1.16

Mobility in soilNot available.Mobility in generalNot available.Other adverse effectsNot available.

13. Disposal considerations

Disposal instructionsCollect 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

Contaminated packaging

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.

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)

2-PHENOXYETHANOL (CAS 122-99-6) Listed. SODIUM PHOSPHATE, DIBASIC (CAS 10140-65-5) 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)

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)

 Chemical name	CAS number	% by wt.
2-PHENOXYETHANOL	122-99-6	1

Other federal regulations

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

2-PHENOXYETHANOL (CAS 122-99-6)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

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.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-PHENOXYETHANOL (CAS 122-99-6)

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

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

JapanInventory of Existing and New Chemical Substances (ENCS)NoKoreaExisting Chemicals List (ECL)No

New ZealandNew Zealand InventoryNoPhilippinesPhilippine Inventory of Chemicals and Chemical SubstancesNo

(PICCS)

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
 04-14-2014

 Revision date
 05-10-2017

Version # 19

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

DisclaimerThe 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.