SAFETY DATA SHEET



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Material	ADVAIR DISKUS
Synonym(s)	ADVAIR DISKUS 50/100 MCG * ADVAIR DISKUS 50/250 MCG * ADVAIR DISKUS 50/500 MCG * SERETIDE ACCUHALER 100, 60 DOSE * SERETIDE ACCUHALER 250, 60 DOSE SERETIDE ACCUHALER 500, 60 DOSE * SERETAIDE DISKUS * VIANI MITE 50 MCG/100 MCG DISKUS * VIANI 50 MCG/250 MCG DISKUS * VIANI FORTE 50 MCG/500 MCG DISKUS * NDC NO 0173-0695-00 * NDC NO 0173-0695-02 * NDC NO 0173-0696-00 * NDC NO 0173-0696-02 * NDC NO 0173-0697-00 * NDC NO 0173-0697-02 * SALMETEROL XINAFOATE (SALMETEROL HYDROXYNAPHTHOATE) AND FLUTICASONE PROPIONATE, FORMULATED PRODUCT
Company Name	GlaxoSmithKline, Corporate Environment, Health & Safety 980 Great West Road Brentford, Middlesex TW8 9GS UK
	UK General Information: +44-20-8047-5000 Transport Emergency (EU) +44-1865-407333 Medical Emergency +1-612-221-3999, Ext 221 Information and Advice: US number, available 24 hours Multi-language response
	GlaxoSmithKline, Corporate Environment, Health & Safety One Franklin Plaza, 200 N 16th Street Philadelphia, PA 19102-1225 US
	US General Information: +1-888-825-5249 Transport Emergency (non EU) +1-703-527-3887 US number, available 24 hours Multi-language response
	2. HAZARDS IDENTIFICATION
Fire and Explosion	Assume that this product is capable of sustaining combustion.
Health	Caution - Potent pharmaceutical agent. Health effects information is based on hazards of components. May cause steroid withdrawal rash.
Environment	No information is available about the potential of this product to produce adverse environmental effects.
3. COM	POSITION / INFORMATION ON INGREDIENTS
Ingredients	CAS # Percent EC-No.
FLUTICASONE PROPIONATE	80474-14-2 0.8 to 4
NON-HAZARDOUS INGREDIEN	S Unassigned 95.4 to 98.6
SALMETEROL XINAFOATE	94749-08-3 0.6

Material ADVAIR DISKUS

	4. FIRST-AID MEASURES		
Ingestion	Never attempt to induce vomiting. Do not attempt to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious. Wash out the mouth with water. If the exposed subject is fully conscious, give plenty of water to drink. Obtain medical attention.		
Inhalation	Physical form suggests that risk of inhalation exposure is negligible.		
Skin Contact	Using appropriate personal protective equipment, remove contaminated clothing and flush exposed area with large amounts of water. Obtain medical attention if skin reaction occurs which may be immediate or delayed.		
Eye Contact	Wash immediately with clean and gently flowing water. Continue for at least 15 minutes. Obtain medical attention.		
NOTES TO HEALTH PROFESSI	DNALS		
Medical Treatment	Treat according to locally accepted protocols. For additional guidance, refer to the current prescribing information or to the local poison control information centre. Medical treatment in cases of overexposure should be treated as an overdose of glucocorticosteroid.		
Medical Conditions Caused or Aggravated by Exposure	Refer to prescribing information for detailed description of medical conditions caused by aggravated by overexposure to this product.		
Antidotes	No specific antidotes are recommended.		
	5. FIRE-FIGHTING MEASURES		
Fire and Explosion Hazards	Not expected for the product, although the packaging is combustible.		
Extinguishing Media	Water, dry powder or foam extinguishers are recommended. Carbon dioxide extinguisher may be ineffective.		
Special Firefighting Procedures	For single units (packages): No special requirements needed. For larger amounts (multiple packages/pallets) of product: Since toxic, corrosive or flammable vapours might be evolved from fires involving this product and associated packaging, self contained breathing apparatus and full protective equipment are recommended for firefighters. If possible, contair and collect firefighting water for later disposal.		
Hazardous Combustion Products	Toxic, corrosive or flammable thermal decomposition products are expected when the product is exposed to fire.		
6	ACCIDENTAL RELEASE MEASURES		
Personal Precautions	Wear protective clothing and equipment consistent with the degree of hazard.		
Environmental Precautions	For large spills, take precautions to prevent entry into waterways, sewers, or surface drainag systems.		
Clean-up Methods	Collect and place it in a suitable, properly labelled container for recovery or disposal.		
Decontamination Procedures	No specific decontamination or detoxification procedures have been identified for this product.		
	7. HANDLING AND STORAGE		
HANDLING			
General Requirements	No special control measures required for the normal handling of this product. Normal room ventilation is expected to be adequate for routine handling of this product.		
STORAGE	No storage requirements necessary for occupational hazards. Follow product information storage instructions to maintain efficacy.		

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT	FLUTICASONE PROPIONATE		
GSK Occupational Hazard Category	4		
GSK Occupational Exposure Limit	3 mcg/m3 (8 HR TWA) SKIN		
INGREDIENT	SALMETEROL XINAFOATE		
GSK Occupational Hazard Category	5		
GSK Occupational Exposure Limit	1 mcg/m3 (8 HR TWA)		
ENGINEERING CONTROLS			
Exposure Controls	The active ingredient was formerly assigned to OHC 4 with the Highly Potent notation. 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. Refer to the Exposure Control Matrix for more information about how ECA's are assigned and how to interpret them. Special considerations apply in the planning, design, review and implementation of controls - seek specialist assistance from local occupational hygienist or safety department.		
Containment	Open handling may result in overexposure. It is strongly advised that dedicated areas and containment, such as glove boxes, isolators, and enclosed material transfer systems be used to prevent personnel exposure and spread of contamination.		
Ventilation	Local exhaust ventilation (LEV) is not appropriate at this level, since total containment should usually be used.		
Administrative	Strict control of access to the working area is essential. Only trained personnel should enter the area during operations. Adopt procedures to prevent contamination of working materials and adjacent areas.		
PERSONAL PROTECTIVE EQUI	PMENT		
Eye Protection	When isolation is not possible, chemical splash goggles or equivalent eye protection must used with other applicable protective equipment.		
Gloves	Care must be exercised if insufficient data are available and further guidance should be sought from your local EHS department. Glove selection must take into account any solvents and other hazards present. The selection of gloves for a specific activity must be based on the material's properties and on possible permeation and degradation that may occur under the circumstances of use. Potential allergic reactions can occur with certain glove materials (e.g. Latex) and therefore these should be avoided.		
Respirators	When isolation is not possible, respiratory protective equipment (RPE) should be combined with applicable protective equipment.		
Other Equipment or Procedures	Follow all local regulations if personal protective equipment (PPE) is used in the workplace. When isolation is not possible in production areas, applicable protective equipment must be used. Consider additional control procedures for maintenance, cleaning and emergencies.		
9. F	PHYSICAL AND CHEMICAL PROPERTIES		
Appearance			
Physical Form	Powder.		
	10. STABILITY AND REACTIVITY		

	10. STABILITY AND REACTIVITY	
Stability	This product is expected to be stable.	
Conditions to Avoid	None for normal handling of this product.	

	11. TOXICOL	OGY INFORMATION	
Pharmacological Effects	Adverse effects of over decrease in white bloo	ctive glucocorticoid receptor agonist. rexposure might include: suppression of adrenal glands; temporary d cell counts; symptoms of hypersensitivity (such as skin rash, hives, reathing); increased susceptibility to infection.	
Target Organ Effects	Adverse effects might occur in the following organ(s) following overexposure: adrenal gla immune system.		
Routes of Exposure			
Oral Toxicity	Not expected to be tox	ic following ingestion.	
Skin Effects	Irritation is not expecte following skin absorption	ed following direct contact. Pharmacological effects may occur on.	
Eye Effects	Minor irritation might o	ccur following direct contact with eyes.	
Sensitisation	Allergic skin reactions might occur following dermal exposure. Assessment based upon information from human exposure.		
Genetic Toxicity	Not expected to be ger	notoxic under occupational exposure conditions.	
Carcinogenicity	Not expected to produce cancer in humans under occupational exposure conditions. No components are listed as carcinogens by GSK, IARC, NTP or US OSHA.		
Reproductive Effects	Not expected to produce adverse effects on fertility or development under occupational exposure conditions.		
Other Adverse Effects	None known for occup	ational exposure.	
	12. ECOLOG	ICAL INFORMATION	
Summary	This material contains two or more active pharmaceutical ingredients that have been tested, one of which may be harmful if released directly to the environment. Specific information or that active pharmaceutical ingredient is provided below. Consult the MSDS of the active ingredient for specific information about potential environmental effects. Appropriate precautions should be taken to limit release of this material to the environment. Local regulations and procedures should be consulted prior to environmental release.		
ECOTOXICITY			
Aquatic			
Activated Sludge Respiration	This material contains toxic to activated sludg	an active pharmaceutical ingredient that is not ge microorganisms.	
	IC50:	> 998 mg/l, 3 Hours, Activated sludge	
Algal	This material contains an active pharmaceutical ingredient that is toxic to algae.		
	IC50:	4 mg/l, 72 Hours, Scenedesmus subspicatus, green algae, Measured	
	NOEC:	1.9 mg/l	
Daphnid	This material contains an active pharmaceutical ingredient that is harmful to daphnids. This material contains an active pharmaceutical ingredient that is harmful to daphnids in chronic toxicity studies.		
	EC50:	20 mg/l, 48 Hours, Daphnia pulex	
	NOEC:	6.7 mg/l, 48 Hours, Daphnia pulex	
	Chronic LOEC:	5 mg/l, 8 Days, Ceriodaphnia dubia, Static renewal test	
	Chronic NOEC:	1.6 mg/l, 8 Days, Ceriodaphnia dubia	
Fish	This material contains an active pharmaceutical ingredient that is harmful to fish.		
	Juvenile Oncorhyncus	mykiss, rainbow trout	
	EC50:	35 mg/l, 96 Hours, Static renewal test	
	NOEC:	7.5 mg/l	
Terrestrial			
Earthworm	This mixture contains an active pharmaceutical ingredient that is not toxic to earthworms.		

ADVAIR DISKUS

Material

	EC50:	334 mg/kg, 28 Days, Eisenia foetida, manure worm,	
	NOEC:	209 mg/kg, 28 Days, Eisenia foetida, manure worm,	
MOBILITY			
Solubility	This material contains an active pharmaceutical ingredient that for environmental fate predictions has limited solubility in water.		
Mobility			
Volatility		tive pharmaceutical ingredient that will not readily enter into the m a container of the pure substance.	
MOBILITY			
Adsorption	This material contains an active pharmaceutical ingredient that is likely to adsorb to soil or sediment. This material contains an active pharmaceutical ingredient that is likely to adsorb to sludges and other biomass.		
	Soil Sediment Sorption (log Koc):	3.84 to 4.52	
Partitioning	This material contains an active pharmaceutical ingredient with octanol/water partition coefficient data that suggests that for environmental fate predictions the active pharmaceutical ingredient may have the tendency to distribute into fats.		
Persistence/Degradation			
Hydrolysis		tive pharmaceutical ingredient that has been shown to be lydrolysis is unlikely to be a significant depletion mechanism.	
	Half-Life, Neutral:	> 1 Years, Measured	
PERSISTENCE/DEGRADATION			
Photolysis	This material contains an active pharmaceutical ingredient that is likely to undergo photodegradation.		
	UV/Visible Spectrum:	338 nm	
Persistence/Degradation			
Biodegradation	This material contains an active pharmaceutical ingredient that has been tested and is expected to be biodegradable.		
	Aerobic - Ready		
	Percent Degradation:	50 %, 12.8 days, Sturm test	
	Aerobic - Soil		
	Percent Degradation:	29.9 to 49.9 %, 64 days	
	13. DISPOSAL CO	ONSIDERATIONS	
Disposal Recommendations	Collect for recycling or recovery if possible. The disposal method for rejected products/returned goods must ensure that they cannot be re-sold or re-used.		
Regulatory Requirements	Observe all local and nation	al regulations when disposing of this material.	

14. TRANSPORT INFORMATION

The SDS should accompany all shipments for reference in the event of spillage or accidental release. Only authorised persons trained and competent in accordance with appropriate national and international regulatory requirements may prepare dangerous goods for transport.

UN Classification and Labelling

Transport Information Transportation and shipping of this product is not restricted. It has no known, significant hazards requiring special packaging or labelling for air, maritime, US or European ground transport purposes.

15. REGULATORY INFORMATION

EU Classification and Labelling

Exempt from requirements of EU Dangerous Preparations directive - product regulated as a medicinal product, cosmetic product or medical device.

US OSHA Standard (29 CFR Par	rt 1910.1200)		
Classification	This product is not classified as hazardous according to the OSHA Hazard Communication Standard.		
Other US Regulations			
TSCA Status	Exempt		
Australian Classification according to Hazardous Substance and Dangerous Goods Regulatory Framework	This product is not classified as hazardous according to the NOHSC Approved Criteria for Classifying Hazardous Substances.		
	16. OTHER INFORMATION		
References	GSK Hazard Determination		

SDS Version Number

K Hazard Determination

16

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.