

SAFETY DATA SHEET



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

Material	AUGMENTIN ES-600
Synonyms	AUGMENTIN 600/42.9 MG/5 ML ORAL SUSPENSION * AUGMENTIN 600 MG/5 ML ORAL SUSPENSION * AUGMENTIN 14:1 ORAL SUSPENSION * AUGMENTIN DS * CLAVAMOX PAEDIATRIC DRY SYRUP * NDC NO 0029-6094-25 * NDC NO 0029-6094-40 * NDC NO 0029-6094-46 * AMOXYCILLIN TRIHYDRATE AND POTASSIUM CLAVULANATE, 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 2200 Renaissance Blvd, Suite 105 King of Prussia, PA 19406 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. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS RN	Percentage
AMOXICILLIN TRIHYDRATE	61336-70-7	63.4
POTASSIUM CLAVULANATE	61177-45-5	5.1
NON-HAZARDOUS INGREDIENTS	Unassigned	31.5

3. HAZARDS IDENTIFICATION

Fire and Explosion	Assume that this product is capable of sustaining combustion.
Health	Exposure might occur via skin; eyes; ingestion; inhalation. May produce allergic skin reactions. Respiratory allergen. Possible effects of overexposure in the workplace include: symptoms of hypersensitivity (such as skin rash, hives, itching, and difficulty breathing); nausea; vomiting; diarrhoea. Health effects information is based on hazards of components.

Environment	No information is available about the potential of this product to produce adverse environmental effects.
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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	Using appropriate personal protective equipment, move exposed subject to fresh air. If breathing is difficult or ceases, ensure and maintain ventilation. Give oxygen as appropriate. The exposed subject should be kept warm and at rest. Obtain medical attention in cases of known or possible over exposure, or with symptoms including chest pain, difficulty breathing, loss of consciousness or other adverse effects, which may be delayed.
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 PROFESSIONALS

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 penicillin antibiotic. In allergic individuals, exposure to this material may require treatment for initial or delayed allergic symptoms and signs. This may include immediate and/or delayed treatment of anaphylactic reactions.
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Medical Conditions Caused or Aggravated by Exposure	Refer to prescribing information for detailed description of medical conditions caused by or aggravated by overexposure to this product. Ocular symptoms may be indicative of allergic reaction. Pulmonary symptoms may indicate allergic reaction or asthma. This material may cause or aggravate allergy to penicillin antibiotics.
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Antidotes	No specific antidotes are recommended.
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5. FIRE-FIGHTING MEASURES

Fire and Explosion Hazards	The combustibility of the product is not known, however the packaging is combustible.
Extinguishing Media	Water, dry powder or foam extinguishers are recommended. Carbon dioxide extinguishers 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, contain 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 drainage 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. Water can be used for clean-up and decontamination operations.

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.
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STORAGE

No storage requirements necessary for occupational hazards. Follow product information storage instructions to maintain efficacy.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT	AMOXICILLIN TRIHYDRATE	
GSK Occupational Hazard Category	3	
GSK Occupational Exposure Limit	100 MCG/M3 (15 MIN STEL)	RESPIRATORY SENSITISER, SKIN SENSITISER

INGREDIENT	POTASSIUM CLAVULANATE	
GSK Occupational Hazard Category	1	
GSK Occupational Exposure Limit	5000 MCG/M3 (8 HR TWA)	

*** Occupational Hygiene Air Monitoring Methods** For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional.

ENGINEERING CONTROLS

Exposure Controls	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.
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PERSONAL PROTECTIVE EQUIPMENT

Eye Protection Wear approved safety glasses with side shields if eye contact is possible.

Respirators If respiratory protective equipment (RPE) is used, the type of RPE will depend upon air concentrations present, required protection factor as well as hazards, physical properties and warning properties of substances present.

Other Equipment or Procedures Wear appropriate clothing to avoid skin contact. Wash hands and arms thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Colour	Off-white.
Physical Form	Free flowing powder.

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Oral Toxicity	Not expected to be toxic following ingestion.
Inhalation Toxicity	Adverse effects might occur following inhalation.
Skin Effects	Irritation might occur following direct contact.
Eye Effects	Minor irritation might occur following direct contact with eyes.
Target Organ Effects	No specific target organ effects have been identified.
Sensitisation	Allergic skin reactions might occur following dermal exposure. Assessment based upon effects of structurally similar substances.
Genetic Toxicity	Not expected to be genotoxic under occupational exposure conditions. Assessment based upon effects of structurally similar substances.
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. No adverse effects have been reported following extensive use or exposure in humans.
Pharmacological Effects	This material is a penicillin; an antibiotic.

12. ECOLOGICAL 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 on 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.
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ECOTOXICITY

Aquatic

Algal This material contains an active pharmaceutical ingredient that is harmful to algae.

IC50: 56 mg/L, 72 Hours, Selenastrum capricornutum, green algae

NOEL: 9.4 mg/L, 72 Hours, Selenastrum capricornutum, green algae

*** Daphnid** This material contains an active pharmaceutical ingredient that is not toxic to daphnids.

EC50: 1610 mg/L, 48 Hours, Daphnia magna, Static test

NOEL: 530 mg/L, 48 Hours, Daphnia magna, Static test

Fish

This material contains an active pharmaceutical ingredient that is not toxic to fish.

Adult Lepomis macrochirus, bluegill sunfish

EC50: > 790 mg/L, 96 Hours, Static test

Adult Lepomis macrochirus, bluegill sunfish

NOEL: 790 mg/L, 96 Hours, Static test

Adult Oncorhynchus mykiss, rainbow trout

EC50: > 960 mg/L, 96 Hours, Static test

Adult Oncorhynchus mykiss, rainbow trout

NOEL: 960 mg/L, 96 Hours, Static test

MOBILITY

Solubility	This material contains an active pharmaceutical ingredient that for environmental fate predictions has solubility in water.
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 will not have the tendency to distribute into fats.

PERSISTENCE/DEGRADATION

Hydrolysis	This material contains an active pharmaceutical ingredient that has been shown to be chemically unstable in water. Hydrolysis may be a significant depletion mechanism. Half-Life, Neutral: 28.3 Hours, Measured Half-Life, Acidic: 11.9 Hours, Measured Half-Life, Basic: 9.92 Hours, Measured
Biodegradation	This material contains an active pharmaceutical ingredient that is not readily biodegradable but is inherently biodegradable (as defined by 1993 OECD Testing Guidelines) and is not expected to persist in the environment. Aerobic - Inherent Percent Degradation: 90 %, 28 days, Zahn-Wellens, Activated sludge

BIOACCUMULATION	This material contains an active pharmaceutical ingredient that will not have a tendency to bioaccumulate in the food chain.
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13. DISPOSAL CONSIDERATIONS

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 national regulations when disposing of this product.

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.
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15. REGULATORY INFORMATION

The information included below is an overview of the major regulatory requirements. It should not be considered to be an exhaustive summary. Local regulations should be consulted for additional requirements.

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 Part 1910.1200)

Classification	This dosage form is exempt from the requirements of the OSHA Hazard Communication Standard.
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Other US Regulations

TSCA Status	Exempt
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16. OTHER INFORMATION

References

GSK Hazard Determination

Date Approved/Revised 03-Jan-2006**SDS Version Number** 18**SDS Sections Updated****Sections**IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF
COMPANY

REGULATORY INFORMATION

Subsections

US Environmental (EPA) Requirements

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.