

SAFETY DATA SHEET

1. Identification	
Product identifier	ARIXTRA INJECTION
Other means of identification	Not available.
Synonym(s)	ARIXTRA INJECTION 2.5 MG/0.5 ML * ARIXTRA INJECTION 5 MG/0.4 ML * ARIXTRA INJECTION 7.5 MG/0.6 ML * ARIXTRA INJECTION 10 MG/0.8 ML * NDC NO. 0007-3230-02 * NDC NO. 0007-3232-11 * NDC NO. 0007-3234-11 * NDC NO. 0007-3236-11 * FONDAPARINUX SODIUM, FORMULATED PRODUCT
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

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 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

Chemical name	Common name and synonyms	CAS number	
FONDAPARINUX SODIUM	METHYL	114870-03-0	0.5
	O-(2-DEOXY-6-O-SULFO-2-SULFOAMINO-		
	ALPHA-D-GLUCOPYRANOSYL)-(1-4)-O-(B		
	ECADD GL40 COL P24 BAO & S-BL61 BOOH SULFO-		
	2-SULFOAMINO-ALPHA-DGLUCOPYRANO		
	SYL)(1-4)-O-(2-O-SULFO-ALPHA-LIDOPYR		
	ANDS-Y1L4R2-INECXY-6-O-SULFO-2-SULF		
	OAMINO-ALPHA-D GLUCOPYRANOSIDE,		
	DECASODIUM SALT		
	PENTASACCHARIDE POLYSULFATED		
	DECASODIUM SALT		
	ALPHA-D-GLUCOPYRANOSIDE, METHYL		
	O-2-DEOXY-6-O-SULFO-2-(SULFOAMINO)-		
	ALPHA-D-GLUCOPYRANOSYL-(1-4)-O-BÉ		
	TA-D-GLUCOPYRANURONOSYL-(1-4)-O-2-		
	DEOXY-3,6-DI-OSULFO-2-(SULFOAMINO)-		
	ALPHA-D-GLUCOPYRANOSYL-(1-4)-O-2-O		
	-SULFO-ALPHA-L-IDOPYRANURONOSYL-(
	1-4)-2-DEOXY-2-(SULFOAMINO)-,6-(HYDR		
	OGEN SULFATE), DECASODIUM SALT		
	SR90107A		
	ORG31540		
	GSK576428A		
Other components below reporta	able levels		99.5

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

4. First-aid measures

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 if symptoms occur.
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	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
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.
Most important symptoms/effects, acute and delayed	The following adverse effects have been noted with therapeutic use of this material: impaired blood coagulation; bleeding.
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	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 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	Use water spray to cool unopened containers.
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. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Following product recovery, flush area with water.

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

Conditions for safe storage, Sincluding any incompatibilities

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).

8. Exposure controls/personal protection

Occupational exposure limits

GSK Components	Туре	Value	
FONDAPARINUX SODIUM (CAS 114870-03-0)	8 HR TWA	50 mcg/m3	
	OHC	3	
Biological limit values	No biological exposure limits noted for	the ingredient(s).	
Appropriate engineering controls	upon the OEL/Occupational Hazard Ca assessment. Good general ventilation (Ventilation rates should be matched to exhaust ventilation, or other engineerin	s established for operations involving this material based tegory and the outcome of a site- or operation-specific risk typically 10 air changes per hour) should be used. conditions. If applicable, use process enclosures, local g controls to maintain airborne levels below recommended not been established, maintain airborne levels to an	
Individual protection measures,	such as personal protective equipment	nt	
Eye/face protection	Not normally needed.		
Hand protection		is not only depend on its material but also on other quality ucer to the other. Glove selection must take into account t.	
Other	Not normally needed.		
Respiratory protection	No personal respiratory protective equi	pment normally required.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	An occupational/industrial hygiene monitoring method has been developed for this material. For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional. 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	Pre-filled syringe.
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	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)	
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	98.7 % estimated

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Material is stable under normal conditions.
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	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Health injuries are not known or expected under normal use. Expected to be a low ingestion hazard.
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. Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	None known. The following adverse effects have been noted with therapeutic use of this material: impaired blood coagulation; bleeding.

Information on toxicological effects

Acute toxicity	Health injuries are n	ot known or expected under normal use.
Components	Species	Test Results
FONDAPARINUX SODIUM (C	AS 114870-03-0)	
Acute		
Other		
LD	Rat	> 40 mg/kg subcutaneous injection
* Estimates for product ma	ay be based on additional	component data not shown.
Skin corrosion/irritation	Health injuries are n	ot known or expected under normal use.
Irritation Corrosion	- Skin	
FONDAPARINU	X SODIUM	Acute dermal irritation Result: Negative Species: Rabbit

Health injuries are not known o temporary irritation.	or expected under normal use. Direct contact with eyes may cause
DIUM	Acute ocular irritation Result: Negative Species: Rabbit
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Not available.	
Health injuries are not known of	or expected under normal use.
	temporary irritation. DDIUM Not available.

Mutagenicity			
FONDAPARINUX	SODIUM		Ames Assay, GLP assay
			Result: Negative
			Chromosomal Aberration Assay In Vitro, human lymphocytes Result: Negative
			Micronucleus Test, GLP assay
			Result: Negative Species: Rat
			Mouse Lymphoma Cell (L5178Y) Mutation Assay, GLP assay
			Result: Negative
			Unscheduled DNA Synthesis in vivo Result: Negative
			Species: Rat
Carcinogenicity			n or expected under normal use. This product is not considered to be IH, NTP, or OSHA.
US. OSHA Specifically Re Not listed.	gulated Subs	tances (29 CFR 1	910.1001-1050)
Reproductive toxicity	Health inju	uries are not knowi	n or expected under normal use.
Reproductivity			
FONDAPARINUX	SODIUM		Embryo-foetal development, sub-cutaneous administration Result: NOAEL = 10 mg/kg/day (maximum dose); no adverse foetal effects Species: Rabbit
			Embryo-foetal development, sub-cutaneous administration Result: NOAEL = 10 mg/kg/day (maximum dose); no adverse
			foetal effects Species: Rat
			Fertility, sub-cutaneous administration
			Result: NOAEL = 10 mg/kg/day (maximum dose tested) Species: Rat
Specific target organ toxicity single exposure	- None know	wn.	
Specific target organ toxicity	- None know	wn.	
repeated exposure	Not likely,	due to the form of	the product.
repeated exposure Aspiration hazard	-	due to the form of	the product.
repeated exposure Aspiration hazard 12. Ecological information	on		
repeated exposure Aspiration hazard	on The produ	ict is not classified	the product. as environmentally hazardous. However, this does not exclude the ent spills can have a harmful or damaging effect on the environment.
repeated exposure Aspiration hazard 12. Ecological information	on The produ	ict is not classified	as environmentally hazardous. However, this does not exclude the
repeated exposure Aspiration hazard 12. Ecological information Ecotoxicity	DN The produ possibility	ict is not classified that large or frequ Species	as environmentally hazardous. However, this does not exclude the ent spills can have a harmful or damaging effect on the environment.
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repeated exposure Aspiration hazard 12. Ecological information Ecotoxicity Components FONDAPARINUX SODIUM Aquatic Acute Algae Crustacea	Dn The produ possibility I (CAS 114870 EC50 EC50	ict is not classified that large or frequ Species -03-0) Algae Daphnia	as environmentally hazardous. However, this does not exclude the ent spills can have a harmful or damaging effect on the environment. Test Results > 100 mg/l, 96 hours QSAR Estimate > 100 mg/l, 48 hours QSAR Estimate
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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.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

US federal regulations One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

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

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes 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) Not regulated.

Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

- US. New Jersey Worker and Community Right-to-Know Act
- Not regulated. US. Pennsylvania RTK - Hazardous Substances

Not regulated.

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

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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	05-09-2014
Revision date	05-09-2014
Version #	06
Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 0 Instability: 0
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.
Revision Information	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Ingredients Regulatory Information: United States GHS: Classification