

# SAFETY DATA SHEET

## 1. Identification

1. Identification		
Product identifier	Argatroban Related Compound C	
Other means of identification Catalog number	1042437	
Chemical name	(2R,4R)-1-[N^8-amino-N^2-(3-methylquinoline-8-sulfonyl)-L-arginyl]-4-methylpiperidine-2- carboxylic acid	
Recommended use	Specified quality tests and a	ssay use only.
Recommended restrictions	Not for use as a drug. Not fo	r administration to humans or animals.
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States	
Telephone	<b>RS</b> Technical Services	301-816-8129
Website	www.usp.org	
E-mail	RSTECH@usp.org CHEMTREC within US &	1-800-424-9300
Emergency phone number	Canada CHEMTREC outside US & Canada	+1 703-527-3887
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	Not available.	
Precautionary statement		
Prevention	Not available.	
Response	Not available.	
Storage	Not available.	
Disposal	Not available.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	Pharmaceutical related compound of unknown potency.	
3. Composition/information on ingredients		

Substance

Chemical name	Common name and synonyms	CAS number	%
Argatroban Related Compound C		No Data	100
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.		
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.		

Most important symptoms/effects, acute and delayed	Related material: Gastrointestinal ulceration or bleeding. Pharmaceutical related compound of unknown potency. It is not known if occupational exposure may cause physiological effects.
Indication of immediate medical attention and special treatment needed	For a related compound: Treatment of overdose should be symptomatic and supportive. Administer activated charcoal with sorbitol to decrease absorption. Monitor blood counts. For significant blood loss, transfuse fresh-frozen-plasma. Manage symptomatic anemia with red-blood-cell transfusions. For hypotension, infuse 10- 20 mL/kg isotonic fluid. (Meditext)
General information	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
5. Fire-fighting measures	
Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release meas	sures
Personal precautions	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.

**Conditions for safe storage, including any incompatibilities** Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

# 8. Exposure controls/personal protection

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Occupational exposure limits	No exposure limits noted for ingredient(s).		
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls	Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred. For laboratory operations, use approved ventilation or containment system (biological safety cabinet, ventilated balance enclosure, glovebox). No open handling.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.		
Skin protection			
Hand protection	Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Consider double gloves.		

Other	Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Train employees in proper gowning and degowning practices. Wear disposable lab coat, disposable sleeve covers and two pair of gloves as appropriate for the task.	
Respiratory protection	Chose respiratory protection appropriate to the task and the level of existing engineering controls. Use a powered air-purifying respirator (PAPR) with HEPA filters, disposable outerware and head cover for spill cleanup.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment. Pharmacological effects may be seen with occupational exposure.	

## 9. Physical and chemical properties

5. Thysical and chemical	
Appearance	Appearance descriptions are general information and not specific to any USP lot.
Physical state	Solid.
Form	Powder.
Color	Off-white.
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	
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.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Molecular formula	C23H37N7O5S
Molecular weight	523.65
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
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 None known.
- Hazardous decomposition Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx. SOx. products

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation Knowledge about health hazard is incomplete.

Skin contact	Knowledge about health hazard is incomplete.	
Eye contact	Knowledge about health hazard is incomplete.	
Ingestion	Knowledge about health hazard is incomplete.	
Symptoms related to the physical, chemical, and toxicological characteristics	Related material: Bleeding or bruising. Blood in urine. Black or bloody stools. Blood in vomit. Lightheadedness. Shortness of breath. Fever. Nausea. Vomiting. Diarrhea. Back pain. Chest pain. It is not known if this material causes the same effects.	
Information on toxicological effe	ects	
Acute toxicity	Not known.	
Skin corrosion/irritation	Knowledge about health hazard is incomplete.	
Serious eye damage/eye irritation	Knowledge about health hazard is incomplete.	
Respiratory or skin sensitization	n	
<b>Respiratory sensitization</b>	Knowledge about health hazard is incomplete.	
Skin sensitization	Knowledge about health hazard is incomplete.	
Germ cell mutagenicity	Knowledge about mutagenicity is incomplete.	
Carcinogenicity	Knowledge about carcinogenicity is incomplete.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not listed. OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1050)	
Not regulated. US. National Toxicology Program (NTP) Report on Carcinogens		
Not listed. Reproductive toxicity	Knowledge about health hazard is incomplete.	
Specific target organ toxicity - single exposure	Knowledge about health hazard is incomplete.	
Specific target organ toxicity - repeated exposure	Knowledge about health hazard is incomplete.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
Further information	Pharmaceutical related compound of unknown potency. It is not known if occupational exposure	
Further mormation	may cause physiological effects.	
12. Ecological information	1	
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.	
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	
13. Disposal considerations		
Disposal instructions	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.	
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	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	Since emptied containers may retain product residue, follow label warnings even after container is	

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.	
General information	It is the shipper's responsibility to determine the correct transport classificat shipment.	ation at the time of
15. Regulatory information	1	
US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the Communication Standard, 29 CFR 1910.1200.	e OSHA Hazard
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)	
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed. SARA 304 Emergency relea	se notification	
	d Substances (29 CFR 1910.1001-1050)	
Not regulated.		
Superfund Amendments and Re Hazard categories	authorization Act of 1986 (SARA) Immediate Hazard - No	
nazaru categories	Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazard	lous substance	
Not listed.		
SARA 311/312 Hazardous chemical	No	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List	
	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated. Safe Drinking Water Act	Not regulated.	
(SDWA)		
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Propo is not known to contain any chemicals currently listed as carcinogens or re	
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
	nents of this product comply with the inventory requirements administered by the gove components of the product are not listed or exempt from listing on the inventory adm	

## 16. Other information, including date of preparation or last revision

Issue date

04-09-2012

Revision date Version # Disclaimer 06-27-2018

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