

SAFETY DATA SHEET

Creation Date 23-Dec-2009

Revision Date 29-Mar-2024

Revision Number 4

1. Identification

Product Name Bacitracin

Cat No. :

J62432

1405-87-4

CAS No Synonyms

ymsAyfivin; Fortracin; Baciliquin.nmended UseLaboratory chemicals.

Recommended Use Uses advised against

Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Sensitization Specific target organ toxicity (single exposure) Target Organs - Central nervous system (CNS). Specific target organ toxicity - (repeated exposure) Target Organs - Kidney, Liver.

Category 1 Category 3

Category 2

Label Elements

Signal Word Warning

Hazard Statements

May cause an allergic skin reaction

May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention

Contaminated work clothing should not be allowed out of the workplace Wear protective gloves Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area **Response** Get medical attention/advice if you feel unwell **Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
Bacitracin		1405-87-4	100			
	4.	First-aid measures				
Eye Contact	Rinse imme medical atte	diately with plenty of water, also under th ntion.	ne eyelids, for at least 15 minutes. Get			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.					
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.					
Ingestion	Do NOT inde	OT induce vomiting. Get medical attention.				
Most important symptoms and effects	May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itchin swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, or pain, muscle pain or flushing					
Notes to Physician	pain, muscle pain or flushing Treat symptomatically					
	5. Fi	ire-fighting measures				

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx). Sulfur oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health 2	Flammability 1	Instability 0	Physical hazards N/A
		6. Accidental re	lease measures	
Personal	Precautions	Use personal protective eq formation. Avoid contact w		adequate ventilation. Avoid dust
Environm	ental Precautions	Should not be released into		
Methods Up	for Containment and	d Clean Sweep up and shovel into	suitable containers for disposa	al. Avoid dust formation.
		7. Handling	and storage	
Handling			equipment/face protection. Ens athe dust. Avoid contact with s	sure adequate ventilation. Avoid kin, eyes or clothing.
Storage.			ep container tightly closed in a Materials. Strong oxidizing ag	dry and well-ventilated place. Keep gents.
		8. Exposure controls	/ personal protecti	on
Exposure	Guidelines		ain any hazardous materials v gion specific regulatory bodies	
Engineeri	ng Measures	•	on, especially in confined areas use to the workstation location.	s. Ensure that eyewash stations
<u>Personal</u>	Protective Equipme	<u>nt</u>		
Eye/fa	ce Protection		re eyeglasses or chemical safe ection regulations in 29 CFR 1	ety goggles as described by 910.133 or European Standard

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	EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
рН	6.0-7.0 1% aq. sol
Melting Point/Range	221 - 225 °C / 429.8 - 437 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C66H103N17O16S
Molecular Weight	1422.7

10. Stability and reactivity

None known, based on information available		
Hygroscopic.		
Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture.		
Strong oxidizing agents		
Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx), Sulfur oxides		
Hazardous polymerization does not occur.		
None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic

No information available

Products Delayed and immedia	te effects as w	ell as chronic effe	ects from short ar	nd long-term expo	sure_		
Irritation		No information available					
Sensitization		May cause sensiti	zation by skin con	lact			
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinoge					
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Bacitracin	1405-87-4	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		Mutagenic effects	have occured in m	nicroorganisms.			
Reproductive Effects		No information ava	ailable.				
Developmental Effects	S	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single exposu STOT - repeated expo		Central nervous sy Kidney Liver	ystem (CNS)				
Aspiration hazard		No information ava	ailable				
Symptoms / effects,b delayed	ooth acute and	nd Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing					
Endocrine Disruptor I	nformation	No information ava	ailable				
Other Adverse Effects	5	The toxicological p	properties have no	t been fully investig	ated.		
		12. Ecol	ogical infor	mation			
Ecotoxicity Do not empty into drain	IS.						
Persistence and Degr	adability	Soluble in water P	ersistence is unlik	ely based on inform	nation available.		
Bioaccumulation/ Acc	cumulation	No information ava	ailable.				
Mobility		Will likely be mobi	le in the environme	ent due to its water	solubility.		
		13. Dispo	sal conside	erations			
Waste Disposal Metho	ods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.					
			sport infor	mation			
DOT		Not regulated					
		Not regulated					
<u>IATA</u> IMDG/IMO		Not regulated Not regulated					
			laton	motion			
		To: Regu	latory infor	mation			

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Bacitracin	1405-87-4	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Bacitracin	1405-87-4	Х	-	215-786-2	Х	Х	Х	-	-	KE-02003

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Bacitracin	1405-87-4	-	Use restricted. See item 75. (see link for restriction details)	-

REACH links

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Bacitracin	1405-87-4	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
Bacitracin	1405-87-4	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information				
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	23-Dec-2009 29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS