

SAFETY DATA SHEET

Creation Date 17-Nov-2009

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product Name

Heparin sodium

Cat No. :BP2425; BP2524-10; BP2524-50; BP2524-100; BP2524-250; H19CAS No
Synonyms9041-08-1
Heparin, sodium salt; HeparinRecommended Use
Uses advised againstLaboratory chemicals.
Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %	
Heparin, sodium salt		9041-08-1	>95	
	4. Fir	st-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. G medical attention if symptoms occur.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.			
Inhalation	Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artifici respiration.			
Ingestion	Do NOT induce vomiting. Get medical attention.			
Most important symptoms and effects	No information available.			
Notes to Physician	Treat symptomatically			
	5. Fire-	fighting measures		
Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.			
Unsuitable Extinguishing Media	No information a	vailable		
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 Impact	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.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

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 1	Flammability 0	Instability 0	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions	Use personal protective ec formation.	uipment as required. Ensure a	dequate ventilation. Avoid dust	
Environmental Precautions	Avoid release to the enviro	nment.		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Acids. Oxidizing agent.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical	l and chemical properties
Physical State	Powder Solid
Appearance	White to off-white
Odor	Odorless
Odor Threshold	No information available
рН	5.0-7.5 1% aq.sol
Melting Point/Range	No data available
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	negligible
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.

Incompatible Materials	Acids, Oxidizing ag	ient				
-	n Products Carbon monoxide (CO), Carbon dioxide (CO ₂)					
Hazardous Polymerization	Hazardous polymei					
Hazardous Reactions		None under normal processing.				
		· · ·				
Acute Toxicity	11. Ioxico	ological info	ormation			
Product Information Oral LD50 Dermal LD50 Mist LC50 Component Information	Based on ATE data Based on ATE data	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.			kg.	
Component Heparin, sodium salt	LD50 Oral 779000 mg/kg (Rat)		LD50 Dermal Not listed		halation listed	
Toxicologically Synergistic	No information avail		Not listed	Not	listed	
Products Delayed and immediate effects	s as well as chronic effec	cts from short an	d long-term expos	sure		
Irritation	No information avail					
Sensitization	No information avail	ilable				
Carcinogenicity	The table below inc	dicates whether ea	ach agency has list	ed any ingredient as	s a carcinogen.	
Component CAS N		NTP	ACGIH	OSHA	Mexico	
Heparin, sodium salt 9041-0 Mutagenic Effects	No information avail	Not listed ilable	Not listed	Not listed	Not listed	
Reproductive Effects		ilabla				
	No information avail	liable.				
Developmental Effects	No information available No information available					
Developmental Effects Teratogenicity		ilable.				
-	No information avail	ilable.				
Teratogenicity STOT - single exposure	No information avai No information avai None known	ilable. ilable.				
Teratogenicity STOT - single exposure STOT - repeated exposure	No information avai No information avai None known None known No information avai	ilable. ilable. ilable				
Teratogenicity STOT - single exposure STOT - repeated exposure Aspiration hazard Symptoms / effects,both acut	No information avai No information avai None known None known No information avai e and No information avai	ilable. ilable. ilable ilable				
Teratogenicity STOT - single exposure STOT - repeated exposure Aspiration hazard Symptoms / effects,both acut delayed	No information avai No information avai None known None known No information avai e and No information avai	ilable. ilable ilable ilable ilable	been fully investig	ated.		
Teratogenicity STOT - single exposure STOT - repeated exposure Aspiration hazard Symptoms / effects,both acut delayed Endocrine Disruptor Informati	No information avai No information avai None known No information avai e and No information avai on No information avai The toxicological pr	ilable. ilable. ilable ilable ilable roperties have not		ated.		
Teratogenicity STOT - single exposure STOT - repeated exposure Aspiration hazard Symptoms / effects,both acut delayed Endocrine Disruptor Informati	No information avai No information avai None known No information avai e and No information avai on No information avai The toxicological pr	ilable. ilable ilable ilable ilable		ated.		
Teratogenicity STOT - single exposure STOT - repeated exposure Aspiration hazard Symptoms / effects,both acut delayed Endocrine Disruptor Informati Other Adverse Effects	No information avai No information avai None known No information avai e and No information avai on No information avai The toxicological pr 12. Ecolo	ilable. ilable ilable ilable roperties have not	mation			
Teratogenicity STOT - single exposure STOT - repeated exposure Aspiration hazard Symptoms / effects,both acut delayed Endocrine Disruptor Informati Other Adverse Effects	No information avai No information avai None known No information avai e and No information avai on No information avai The toxicological pr <u>12. Ecolo</u> Soluble in water Pe	ilable. ilable ilable ilable roperties have not ogical infor	mation			

13. Disposal considerations

Waste Disposal Methods

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.

	14. Transport information
DOT TDG IATA	Not regulated
TDG	Not regulated
	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Heparin, sodium salt	9041-08-1	Х	ACTIVE	XU

Legend:

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

X - Listed

'-' - Not Listed

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)

TSCA 12(b) - Notices of Export 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
Heparin, sodium salt	9041-08-1	Х	-	-	-	-		Х	Х	-

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

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable

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

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)
Heparin, sodium salt	9041-08-1	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
		(0040/40/50)	(0040/40/50)	Commention (DIC)	(Llamourlaus Weste)

	Component	CAS NO	(2012/18/EC) -	Seveso III Directive	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
			(,	(2012/18/EC) -		(Hazardous waste)
			Qualifying Quantities	Qualifying Quantities		
			for Major Accident	for Safety Report		
			Notification	Requirements		
[Heparin, sodium salt	9041-08-1	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	17-Nov-2009 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).		

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