

# SAFETY DATA SHEET

Creation Date 17-Nov-2009

Revision Date 26-Dec-2021

**Revision Number** 4

# 1. Identification

**Product Name** 

# Heparin sodium

# Cat No. :AC411210000; AC411210010; AC411210050; AC411212500CAS No9041-08-1SynonymsHeparin Lock-Flush; Heparin Sodium Salt; Sodium HeparinateRecommended UseLaboratory chemicals

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

# Details of the supplier of the safety data sheet

<u>Company</u>

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

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **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

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 Heparin, sodium salt		<b>CAS No</b> 9041-08-1	<b>Weight %</b> >95		
4. First-aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get 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 artificial respiration.				
Ingestion	Do NOT induce vomiting. Get medical attention.				
Most important symptoms and	No information available.				
effects Notes to Physician	Treat symptomatically				
	5. Fi	re-fighting measures			
Suitable Extinguishing Media	Water spray,	carbon dioxide (CO2), dry chemical, ald	cohol-resistant foam.		
Unsuitable Extinguishing Media	No information available				
Flash Point Method -	No information available No information available				
Autoignition Temperature Explosion Limits	Not applicabl	e			
Upper	No data avail No data avail				
Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge		n 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 (CO<sub>2</sub>). 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	<b>Instability</b> 0	Physical hazards N/A
		6. Accidental rel	ease measures	
Personal	I Precautions	Use personal protective eq formation.	uipment as required. Ensure a	dequate ventilation. Avoid dust
Environr	nental Precautions	Avoid release to the environ	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.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

7. T TIYS	sical 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
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# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.

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Conditions to Avoid	1	Avoid dust formation. Incompatible products. Excess heat.				
Incompatible Mater	ials	Acids, Oxidizing agent				
Hazardous Decomp	osition Products	ts Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )				
Hazardous Polymer	rization	Hazardous polymerization does not occur.				
Hazardous Reaction	ns	None under norma	I processing.			
		11. Toxico	ological info	ormation		
Acute Toxicity						
Product Information Oral LD50 Dermal LD50 Mist LC50 Component Informa		Based on ATE data Based on ATE data Based on ATE data	a, the classificatio	n criteria are not me	et. ATE > 2000 mg	
Componer	nt	LD50 Oral		LD50 Dermal		nhalation
Heparin, sodiur		779000 mg/kg (Rat No information ava		Not listed	Not	t listed
Products	-					
Delayed and immed	liate effects as w	ell as chronic effe	cts from short an	nd long-term expo	sure	
Irritation		No information ava	ilable			
Sensitization		No information ava	ilable			
Carcinogenicity		The table below inc	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Heparin, sodium salt Mutagenic Effects	9041-08-1	Not listed No information ava	Not listed	Not listed	Not listed	Not listed
		No information available.				
Reproductive Effec	ts	No information ava	ilable.			
-		No information ava				
Reproductive Effec			ilable.			
Reproductive Effec	ects sure	No information ava	ilable.			
Reproductive Effec Developmental Effe Teratogenicity STOT - single expo	ects sure	No information ava No information ava None known	ilable. ilable.			
Reproductive Effect Developmental Effect Teratogenicity STOT - single exposision STOT - repeated ext	ects sure posure	No information ava No information ava None known None known No information ava	iilable. iilable. iilable			
Reproductive Effect Developmental Effect Teratogenicity STOT - single exposision STOT - repeated ex Aspiration hazard Symptoms / effects	ects sure posure s,both acute and	No information ava No information ava None known None known No information ava	iilable. iilable. iilable iilable			
Reproductive Effect Developmental Effect Teratogenicity STOT - single exposision STOT - repeated ex Aspiration hazard Symptoms / effects delayed	ects sure posure s,both acute and or Information	No information ava No information ava None known No information ava No information ava	iilable. iilable. iilable iilable iilable	t been fully investig	ated.	
Reproductive Effect Developmental Effect Teratogenicity STOT - single exposision STOT - repeated ex Aspiration hazard Symptoms / effects delayed Endocrine Disrupto	ects sure posure s,both acute and or Information	No information ava No information ava None known No information ava No information ava No information ava The toxicological p	iilable. iilable. iilable iilable iilable		ated.	
Reproductive Effect Developmental Effect Teratogenicity STOT - single exposision STOT - repeated ex Aspiration hazard Symptoms / effects delayed Endocrine Disrupto	ects sure posure s,both acute and or Information cts	No information ava No information ava None known No information ava No information ava No information ava The toxicological p	ailable. Ailable. Ailable Ailable Ailable Foperties have no		ated.	
Reproductive Effect Developmental Effect Teratogenicity STOT - single exposision STOT - repeated ex Aspiration hazard Symptoms / effects delayed Endocrine Disrupto Other Adverse Effect	ects sure posure s,both acute and or Information cts ains.	No information ava No information ava None known No information ava No information ava No information ava The toxicological p	nilable. nilable nilable nilable roperties have no ogical infor	mation		

Mobility
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Will likely be mobile in the environment due to its water solubility.

	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	Not regulated
DOTTDGIATA	Not regulated
ΙΑΤΑ	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
<b>OSHA</b> - 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	Not applicable

# Regulations

<b>U.S. Department of Transportation</b> 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 (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Heparin, sodium salt	9041-08-1	Not applicable	Not applicable	Not applicable	Not applicable

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Creation Date	17-Nov-2009
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Revision Summary	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