

SAFETY DATA SHEET

Creation Date 21-Feb-2014

Revision Date 02-Apr-2025

Revision Number 6

1. Identification

Product Name

Sodium Phosphate Dibasic Heptahydrate (Certified ACS)

Cat No. :

S373-3; S373-3LC; S373-50; S373-250LB; S373-500

CAS No Synonyms

Recommended Use Uses advised against Disodium hydrogen phosphate heptahydrate 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

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)

7782-85-6

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 %
Sodium phosphate dibasic heptahydrate	7782-85-6	98-100
Sodium phosphate dibasic	7558-79-4	-

4. First-aid measures	
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.	
Remove to fresh air. Get medical attention immediately if symptoms occur.	
Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.	
None reasonably foreseeable.	
Treat symptomatically	

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products

Oxides of phosphorus. Sodium 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.

NFPA Health 0	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective ec formation.	quipment as required. Ensure a	dequate ventilation. Avoid dust
Environmental Precautions	Should not be released int Information.	o the environment. See Section	12 for additional Ecological

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. Strong oxidizing agents. Strong acids. Metals.
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.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
	Developed and apartical properties

9. Physical and chemical properties	
Solid	
\\/bito	

5	I I I I I I I I I I I I I I I I I I I
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	9.0-9.3 (@ 20) 5% aq.sol. 20°C
Melting Point/Range	48 °C / 118.4 °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	154 g/L (20°C)
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 48°C
Viscosity	Not applicable
Molecular Formula	H Na2 O4 P . 7 H2 O
Molecular Weight	268.07

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.
Incompatible Materials	Strong oxidizing agents, Strong acids, Metals
Hazardous Decomposition Product	s Oxides of phosphorus, Sodium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Oral LD50 Dermal LD50 Mist LC50 Component Informa		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.				
Componen		LD50 Oral		LD50 Dermal	LC50	Inhalation
Sodium phosphate		LD50 = 17 g/kg (Rat		Not listed		t listed
		5 5 X				
Toxicologically Syn Products Delayed and immed	-	No information ava		d long-term expos		
Delayeu anu inimeu	iale ellecis as w		cis ironi shori an	u long-term expos	<u>sure</u>	
Irritation		No information ava	ilable			
Sensitization		No information ava	ilable			
Carcinogenicity		The table below inc	dicates whether ea	ach agency has liste	ed any ingredient a	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium phosphate dibasic heptahydrate	7782-85-6	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium phosphate dibasic	7558-79-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effect	S	No information ava	ilable.			
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		None known None known				
Aspiration hazard		No information available				
Symptoms / effects,both acute and No informa delayed		No information ava	ilable			
Endocrine Disruptor Information		No information available				
Other Adverse Effects		The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity

Do not empty into drains.	
---------------------------	--

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation No information available.	
Mobility Will likely be mobile in the environment due to its water solubility.	
	13. Disposal considerations

Waste Disposal MethodsChemical 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
DOT TDG	Not regulated
IATA	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
Sodium phosphate dibasic heptahydrate	7782-85-6	-	-	-
Sodium phosphate dibasic	7558-79-4	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

- - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
Sodium phosphate dibasic heptahydrate	7782-85-6	-	-	-	Х	Х		Х	Х	-
Sodium phosphate dibasic	7558-79-4	Х	-	231-448-7	Х	Х	Х	Х	Х	KE-12344

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			
Component	CWA - Hazardous	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants
-	Substances	Quantities		
Sodium phosphate dibasic	Х	5000 lb	-	-

Clean Air Act Not applicable

OSHA - Occupational Safety and	Not applicable
Health Administration	

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.

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Sodium phosphate dibasic	5000 lb	-	5000 lb 2270 kg

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Not applicable Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium phosphate	Х	X	Х	-	-
dibasic					

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

This product does not contain any DHS chemicals. **U.S. Department of Homeland**

Security

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Not applicable

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)
Sodium phosphate dibasic heptahydrate	7782-85-6	-	-	-
Sodium phosphate dibasic	7558-79-4	-	-	-

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Sodium phosphate dibasic heptahydrate	7782-85-6	Not applicable	Not applicable	Not applicable	Not applicable
Sodium phosphate dibasic	7558-79-4	Listed	Not applicable	Not applicable	Not applicable

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

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	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Sodium phosphate dibasic heptahydrate	7782-85-6	Not applicable	Not applicable	Not applicable	Not applicable
Sodium phosphate dibasic	7558-79-4	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	21-Feb-2014 02-Apr-2025 02-Apr-2025 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