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MOEL's Public Notice No. 2020-130 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Description:	Sodium hydrogen phosphate
Cat No. :	A11817
Synonyms	Disodium hydrogen phosphate
CAS No	7558-79-4
Molecular Formula	H Na2 O4 P
<u>Relevant identified uses of the sub</u> Recommended Use Uses advised against	stance or mixture and uses advised against Laboratory chemicals. No Information available

#### Details of the supplier of the safety data sheet

Importer Fisher Scientific Korea D5,D6, Incheon Airport Logistics Complex 150, Gonghangdong-Ro Mapo-Gu 296 Beon-Gil Jung-Gu, Incheon 400-340 Tel: +82-2-6196-5500 Fax: +82-2-6196-5501 Supplier Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099

#### E-mail address

Product Identifier

Chem.KR@thermofisher.com

#### Emergency Telephone Number

Emergency telephone: Medical: +(82) 070-7686-0086 or + 1-703-741-5970 CHEMTREC: 1-800-424-9300 or + 1-703-527-3887 Korea: 00-308-13-2549 (24 hours a day, 7 days a week)

### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Physical hazards Based on available data, the classification criteria are not met

Health hazards Based on available data, the classification criteria are not met

#### Environmental hazards

Based on available data, the classification criteria are not met

#### Label Elements

#### Other Hazards

NFPA	_			
	Health	Flammability	Instability	Physical hazards
	1	0	1	N/A

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Component	Common Name	CAS No	Index No	Weight %
Sodium phosphate dibasic	Disodium hydrogen phosphate	7558-79-4	KE-12344	99 - 100

# **SECTION 4: FIRST AID MEASURES**

Description of first aid measures Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Self-Protection of the First Aider	No special precautions required.

Most important symptoms and effects, both acute and delayed

None reasonably foreseeable.

Indication of any immediate medical attention and special treatment neededNotes to PhysicianTreat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons No information available.

<u>Special hazards arising from the substance or mixture</u> Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

#### **Hazardous Combustion Products**

ALFAAA11817

#### Sodium hydrogen phosphate

Oxides of phosphorus, Sodium oxides.

#### Advice for fire-fighters

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

**SECTION 6: ACCIDENTAL RELEASE MEASURES** 

#### Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

#### Environmental precautions

Should not be released into the environment.

#### Methods and Material for Containment and Cleaning Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### **Reference to Other Sections**

Refer to protective measures listed in Sections 8 and 13.

### **SECTION 7: HANDLING AND STORAGE**

#### Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

#### Specific End Uses

Use in laboratories.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control Parameters**

Component	CAS No	Korea	ACGIH TLV	OSHA PEL
Sodium phosphate dibasic	7558-79-4	Not listed	Not listed	Not listed

Component	CAS No	European Union	The United Kingdom	Germany
Sodium phosphate dibasic	7558-79-4	Not listed	Not listed	Not listed

#### Biological Exposure Indices

Component	CAS No	Biological Exposure Indices
Sodium phosphate dibasic	7558-79-4	Not listed

#### Exposure Controls

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

Eye Protection	
Hand Protection	
Skin and body protection	

Wear safety glasses with side shields (or goggles) Protective gloves Long sleeved clothing

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Personal protective equipment Respiratory Protection	Use only those certified by the Korea Occupational Safety and Health Administration. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
Recommended Filter type:	Particle filter
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

#### Environmental exposure controls No information available

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and of Appearance (Physical State, Color, etc.) Odor Odor Threshold pH		(5%)
Melting Point/Range Softening Point Boiling Point/Range Flash Point	No data available No data available No information available No information available	Method - No information available
Evaporation Rate Flammability (solid,gas) Explosion Limits	Not applicable No information available No data available	Solid
Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents	No information available Not applicable No data available No data available 75 g/L (20°C) No information available	Solid

#### Partition Coefficient (n-octanol/water)

	Component	CAS No	log Pow
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Sodium phosphate dibasic	7558-79-4	No data available
Autoignition Temperature Decomposition Temperature Viscosity Explosive Properties Oxidizing Properties	No data available > 240°C Not applicable No information available No information available	Solid
Molecular Formula Molecular Weight	H Na2 O4 P 141.96	

# **SECTION 10: STABILITY AND REACTIVITY**

<u>Reactivity</u>	None known, based on information available
Chemical Stability	Hygroscopic.
Possibility of Hazardous Reactions	_
Hazardous Polymerization Hazardous Reactions	No information available. None under normal processing.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents. Strong acids. Strong bases.

#### Hazardous Decomposition Products

Sodium hydrogen phosphate

Oxides of phosphorus. Sodium oxides.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Product Information** Information on expected route of exposure Inhalation May cause irritation of respiratory tract. May be harmful if inhaled. Avoid breathing dust or spray mist. Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. No known effect based on information supplied. Not an expected route of exposure. Eyes May cause irritation. May be harmful in contact with skin. Skin Information on Health Hazards (a) acute toxicity; Oral Based on available data, the classification criteria are not met No data available Dermal Inhalation No data available

#### Sodium hydrogen phosphate

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Component	CAS No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium phosphate dibasic	7558-79-4	LD50 = 17 g/kg (Rat)	No data available	No data available

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

RespiratoryNo data availableSkinNo data available

Component	CAS No	Test method	Test species	Study result
Sodium phosphate dibasic	7558-79-4	No data available	No data available	No data available

(e) germ cell mutagenicity; No data available

Component	CAS No	Test method	Test species	Study result
Sodium phosphate dibasic	7558-79-4	No data available	No data available	No data available

(f) carcinogenicity;

No data available

Component	CAS No	Test method	Test species / Duration	Study result
Sodium phosphate dibasic	7558-79-4	No data available	No data available	No data available

There are no known carcinogenic chemicals in this product

Component	CAS No	IARC	NTP	ACGIH	OSHA	UK
Sodium phosphate dibasic	7558-79-4	Not listed				

#### (g) reproductive toxicity;

No data available

Component	CAS No	Test method	Test species / Duration	Study result
Sodium phosphate dibasic	7558-79-4	No data available	No data available	No data available

(h) STOT-single exposure;	No data available
(i) STOT-repeated exposure;	No data available
Target Organs	No information available.
(j) aspiration hazard;	Not applicable Solid

#### Other Adverse Effects

No information available.

Component	CAS No		EU - Endocrine Disruptors - Evaluated	Japan - Endocrine Disruptor Information
		List	Substances	
Sodium phosphate dibasic	7558-79-4	Not applicable	Not applicable	Not applicable

# **SECTION 12: ECOLOGICAL INFORMATION**

#### Sodium hydrogen phosphate

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Ecotoxicity effects

Do not empty into drains. .

Component	CAS No	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Sodium phosphate dibasic	7558-79-4	No data available	No data available	No data available	No data available
Persistence and degradability Persistence Degradability	Soluble in wa	tter, Persistence is ι for inorganic substa	<b>3</b> /	nformation available.	
Bioaccumulative potential	Bioaccumula	tion is unlikely			
Mobility in soil	The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.				ly be mobile in the
Ozone Depletion Potential					
Component		CAS No		Ozone Depletion	Potential

Component	CAS No	Ozone Depletion Potential
Sodium phosphate dibasic	7558-79-4	Not listed

Other adverse effects

No information available

### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Waste from Residues/Unused Products	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.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

	SECTION 14: TRANSPORT INFORMATION							
Road and Rail Transport	Not Regulated							
IATA	Not regulated							
IMDG/IMO Marine Pollutant	Not regulated No hazards identified							

**Special Precautions for User** 

No special precautions required

### **SECTION 15: REGULATORY INFORMATION**

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

Legend: X - Listed '-' - Not Listed

#### International Inventories

Component	CAS No	KECL	TSCA	EINECS	IECSC	DSL	NDSL	PICCS	ENCS	ISHL	AICS
Sodium phosphate dibasic	7558-79-4	KE-12344	Х	231-448-7	Х	Х	-	Х	Х	Х	Х

#### Sodium hydrogen phosphate

Component	CAS No	(2012 Qualifyin for Majo	III Directive /18/EC) - g Quantities or Accident fication	Seveso III Di (2012/18/E Qualifying Qu for Safety F Requirem	EC) - lantities Report	Rotterdam Convention (PIC	Basel Convention (Hazardous Waste)
Sodium phosphate dibasic	7558-79-4	Not a	pplicable	Not applic	able	Not applicable	Not applicable
Component	CASN	10	OEC	D HPV		stent Organic	Ozone Depletion

Component			i ci sisteni oi gunio	
			Pollutant	Potential
Sodium phosphate dibasic	7558-79-4	Listed	Not applicable	Not applicable

#### Korean National Regulations

Component	CAS No	Act on Registration and Evaluation of Chemical Substances (K-REACH)		Existing Substances Subject to Registration
Sodium phosphate dibasic	7558-79-4	Annex 1 - KE-12344	Not applicable	Not applicable

Component	CAS No	Chemical Control Act - Toxic Chemicals	Chemical Control Act - Prohibited Chemicals	Chemical Control Act - Use Restricted Chemicals
Sodium phosphate dibasic	7558-79-4	Not applicable	Not applicable	Not applicable

Component	CAS No	Chemical Control Act - Accident Precaution Chemicals (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Storage (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Manufacture/Use (% in mixtures)
Sodium phosphate dibasic	7558-79-4	Not applicable	Not applicable	Not applicable

Component	CAS No	Waste Control Law	Ministry of Environment - CMR risk	Critically Controlled
				Substance
Sodium phosphate dibasic	7558-79-4	Not applicable	Not applicable	Not applicable

Component	CAS No	ISHA - Harmful Agents Subject to Work Environment Monitoring	ISHA - Prohibited substances	ISHA - Substances requiring permission
Sodium phosphate dibasic	7558-79-4	Not applicable	Not applicable	Not applicable

Component	CAS No	ISHA - Substances subject to control	ISHA - Harmful Agents Requiring Health Examination	ISHA - Permissible Exposure Limits
Sodium phosphate dibasic	7558-79-4	Not applicable	Not applicable	Not applicable

Component	CAS No	ISHA - Subject to	ISHA - Threshold Limit	ISHA - Special
		Process Safety Reports (minimum quantity)	Values (TLVs) Chemicals	management materials
Sodium phosphate dibasic	7558-79-4	Not applicable	Not applicable	Not applicable

### National Fire Association - Dangerous Substances Minimum quantity requiring a permit

Component	CAS No	Class 1 - Oxidising solids	Class 2 - Flammable solid	Class 3 - Spontaneously Combustible Substances and Dangerous Substances When Wet	Class 4 - Flammable liquids	Class 5 - Self-reactive substances	Class 6 - Oxidising liquids
Sodium phosphate dibasic	7558-79-4	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

#### **Control Parameters**

Component	CAS No	Korea	Biological Exposure Indices
Sodium phosphate dibasic	7558-79-4	Not listed	Not listed

#### **US Management Information**

**OSHA** - Occupational Safety and Health Administration

Not applicable

Component	CAS No	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Sodium phosphate dibasic	7558-79-4	Not applicable	Not applicable
CERCLA	This material, as supplied, con	tains one or more substances	regulated as a hazardous

substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	CAS No	CERCLA EHS RQs	Hazardous Substances RQs	SARA 313 - Threshold Values %
Sodium phosphate dibasic	7558-79-4	Not applicable	5000 lb	Not applicable

#### CLP Classification - Regulation (EC) No 1272/2008

Based on available data, the classification criteria are not met.

### **SECTION 16: OTHER INFORMATION**

#### Legend

CAS - Chemical Abstracts Service EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances	<ul> <li>TSCA - United States Toxic Substances Control Act Section 8(b) Inventory</li> <li>DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List</li> <li>ENCS - Japanese Existing and New Chemical Substances</li> <li>AICS - Australian Inventory of Chemical Substances</li> <li>NZIOC - New Zealand Inventory of Chemicals</li> </ul>			
<ul> <li>WEL - Workplace Exposure Limit</li> <li>ACGIH - American Conference of Governmental Industrial Hygienists</li> <li>RPE - Respiratory Protective Equipment</li> <li>LC50 - Lethal Concentration 50%</li> <li>POW - Partition coefficient Octanol:Water</li> </ul>	TWA - Time Weighted Average IARC - International Agency for Research on Cancer LD50 - Lethal Dose 50% EC50 - Effective Concentration 50%			
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code OECD - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC (volatile organic compound)			
Key literature references and sources for data				

https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and

Sodium hydrogen phosphate

hygiene.

Prepared By Creation Date Revision Date Revision Number Revision Summary Health, Safety and Environmental Department 02-Feb-2010 07-Apr-2022 5 SDS sections updated.

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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 Safety Data Sheet** 

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