

MOEL's Public Notice No. 2016-19 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

WAI4 - KGHS - KOREAN Issue Date 01-May-2015 Revision Date 05-Sep-2019 Revision Number 1

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

**Product Identifier** 

Product Name Phosphate Standard

Product No 239520

Pure substance/mixture Mixture

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Use as laboratory reagent

Uses advised against No Information available

**Supplier** 

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Made in USA

## **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

#### Physical hazards

Based on available data, the classification criteria are not met

#### **Health hazards**

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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** 

HealthFlammabilityInstabilityPhysical hazards00N/A

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2. Mixtures

Component	Common Name	CAS-No	Index No.	Weight %
Water	No information	7732-18-5	KE-35400	99 - 100
	available			
Potassium Dihydrogen Phosphate	No information	7778-77-0	KE-28622	<0.1
	available			

## **SECTION 4: FIRST AID MEASURES**

First aid measures

General Advice Use first aid treatment according to the nature of the injury. Get medical attention

immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

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.

**Inhalation** Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Self-Protection of the First Aider No special precautions required.

Most important symptoms and effects, both acute and delayed

Most important symptoms and

effects

None reasonably foreseeable

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

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## **SECTION 5: FIREFIGHTING MEASURES**

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available

#### Specific Hazards Arising from the Chemical

No information available.

**Explosion Data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

#### **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.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological

information.

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

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

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

#### **Precautions for Safe Handling**

**Handling** Wear personal protective equipment

Ensure adequate ventilation

Avoid contact with skin, eyes and clothing

Avoid ingestion and inhalation

# Conditions for Safe Storage, Including any Incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place

Store at room temperature in the original container

Keep away from direct sunlight

Incompatible Products

No information available

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

## **Control Parameters**

Component	CAS-No	Korea	ACGIH TLV	OSHA PEL
Water	7732-18-5	Not listed	Not listed	Not listed
Potassium Dihydrogen	7778-77-0	Not listed	Not listed	Not listed
Phosphate				

Component	CAS-No	European Union	The United Kingdom	Germany

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Water	7732-18-5	Not listed	Not listed	Not listed
Potassium Dihydrogen	7778-77-0	Not listed	Not listed	Not listed
Phosphate				

Biological Exposure Indices

Component	CAS-No	Biological Exposure Indices
Water	7732-18-5	Not listed
Potassium Dihydrogen	7778-77-0	Not listed
Phosphate		

#### **Appropriate engineering controls**

Engineering Measures None under normal use conditions

Individual protection measures, such as personal protective equipment

**Personal protective equipment** Use only those certified by the Korea Occupational Safety and Health Administration.

**Eye/face Protection** Wear chemical splash goggles and face shield. If splashes are likely to occur, wear:.

Face-shield.

**Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection None under normal use conditions. In case of inadequate ventilation wear respiratory

protection.

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 chemical properties

Physical StateLiquidAppearanceColorlessOdorOdorless

Odor Threshold No information available

**pH** 7.0

PH Range No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Flash Point (High in °C)

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor Density
Specific Gravity
No information available
No information available
No information available
No information available

Water Solubility Soluble in water

Solubility in other solvents

Partition coefficient

No information available
No information available

**Autoignition Temperature** 

Decomposition TemperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information available

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Explosive Properties No information available Oxidizing Properties No information available

**Other Information** 

Softening Point
Molecular Weight
VOC Content(%)
Density
No information available

## **SECTION 10: STABILITY AND REACTIVITY**

#### Reactivity

No Information available

#### **Chemical Stability**

Stable under normal conditions

## **Possibility of Hazardous Reactions**

None under normal processing

#### **Conditions to Avoid**

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

No information available

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **Product Information**

# Information on likely routes of exposure

**Inhalation** Not an expected route of exposure.

**Ingestion** No known effect based on information supplied.

Eyes Not an expected route of exposure.

**Skin** No known effect based on information supplied.

#### Information on Toxicological Effects

Symptoms No information available

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available

Mutagenic Effects No information available

**Carcinogenicity** No information available.

Reproductive Effects No information available

STOT - single exposure No information available

STOT - repeated exposure No information available

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Target Organs None known.

Aspiration hazard No information available

Numerical measures of toxicity - Product Information

## SECTION 12: ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0.1% of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### Persistence and Degradability

No information available

#### **Bioaccumulation/ Accumulation**

No information available

## **Mobility**

No information available.

#### Other adverse effects

No information available

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Waste Disposal Methods Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated Packaging** Improper disposal or reuse of this container may be dangerous and illegal.

## SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport Not Regulated

IATA Not regulated

 IMDG/IMO
 Not regulated

 Marine Pollutant
 Not Applicable

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	AICS
Water	7732-18-5	KE-35400	X	231-791-2	X	X	Ī	X	-	Х
Potassium Dihydrogen Phosphate	7778-77-0	KE-28622	Х	231-913-4	Х	Х	-	Х	Х	Х

Component CAS-No Seveso III Directive Seveso III Directive Rotterdam Basel Convention
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		(2012/18/EC) - Qualifying Quantities for Major Accident Notification	(2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	(Hazardous Waste)
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS-No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential
Water	7732-18-5	Listed	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Listed	Not applicable	Not applicable

# **Korean National Regulations**

Component	CAS-No	Act on Registration and Evaluation of Chemical Substances (K-REACH)	Authorised Chemicals	Existing Substances Subject to Registration
Water	7732-18-5	Annex 1 - KE-35400	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Exempt (Index No. 25) Annex 1 - KE-28622	Not applicable	Not applicable

Component	CAS-No	Chemical Control Act - Toxic Chemicals	Chemical Control Act - Prohibited Chemicals	Chemical Control Act - Use Restricted Chemicals
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	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)
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Not applicable	Not applicable	Not applicable

Component	CAS-No	Waste Control Law	Ministry of Environment -	Ministry of Environment -
			CMR risk	Critically Controlled
				Substance
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Not applicable	Not applicable	Not applicable

Component	CAS-No	ISHA - Harmful Agents Subject to Work Environment Monitoring	ISHA - Prohibited substances	ISHA - Substances requiring permission
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Not applicable	Not applicable	Not applicable

Component	CAS-No	ISHA - Substances subject to control	ISHA - Harmful Agents Requiring Health Examination	ISHA - Permissible Exposure Limits
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Not applicable	Not applicable	Not applicable

Component	CAS-No	ISHA - Subject to	ISHA - Threshold Limit Values (TLVs) Chemicals	ISHA - Special management materials
		(minimum quantity)	raidos (1276) Gilolillodio	managomont matorialo
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Not applicable	Not applicable	Not applicable

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

Component	CAS-No	Class 1 -	Class 2 -	Class 3 -	Class 4 -	Class 5 -	Class 6 -
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		Oxidising solids	Flammable solid	Spontaneously Combustible Substances and Dangerous Substances When Wet	Flammable liquids	Self-reactive substances	Oxidising liquids
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

#### **Control Parameters**

Component	CAS-No	Korea	Biological Exposure Indices
Water	7732-18-5	Not listed	Not listed
Potassium Dihydrogen Phosphate	7778-77-0	Not listed	Not listed

#### **US Management Information**

**OSHA** - Occupational Safety and Health Administration

Not applicable

Component	CAS-No	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Water	7732-18-5	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Not applicable	Not applicable

CERCLA Not applicable

Component	CAS-No	CERCLA EHS RQs	Hazardous Substances RQs	SARA 313 - Threshold Values %
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Dihydrogen Phosphate	7778-77-0	Not applicable	Not applicable	Not applicable

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

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

## **SECTION 16: OTHER INFORMATION**

Prepared By Regulatory Affairs

Prepared For Thermo Fisher Scientific Inc.©

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Reason for revision Initial Release.

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**End of Safety Data Sheet** 

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