

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

WAI4 - KGHS - KOREAN Issue Date 05-Sep-2019 Revision Date 05-Sep-2019 **Revision Number** 1

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

Product Identifier

Product Name Conductivity / TSD Standard Solutions

> 1413 µS/cm Conductivity Solution 1500 µS/cm Conductivity Solution 84 µS/cm Conductivity Solution 12880 µS/cm Conductivity Solution 2764 µS/cm Conductivity Solution

23 µS/cm Conductivity

CONDUCTIVITY / TSD STANDARD SOLUTIONS **Product No**

> 00606-10. 00653-15. 00653-16. 00653-18. 00653-20. 00653-23. 00653-27. 00653-32. 00653-47, 00653-50, 00653-89, 35653-09, 35653-10, 35653-11, 35653-12, 35653-13,

353653-15

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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CHEMTREC: 1-800-424-9300 or + 1-703-527-3887 Korea: 00-308-13-2549 (24 hours a day, 7 days a week)

Tel: 1-800-323-4340

Made in USA

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Physical hazards

Conductivity / TSD Standard Solutions 1413 μS/cm Conductivity Solution 1500 μS/cm Conductivity Solution 84 μS/cm Conductivity Solution 12880 μS/cm Conductivity Solution 2764 μS/cm Conductivity Solution 23 μS/cm Conductivity Revision Date 05-Sep-2019

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

HealthFlammabilityInstabilityPhysical hazards00N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Component	Common Name	CAS-No	Index No.	Weight %
Water	No information available	7732-18-5	KE-35400	99 - 100
Potassium Chloride	No information available	7447-40-7	KE-29086	0.5 - 1

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.

Conductivity / TSD Standard Solutions 1413 μS/cm Conductivity Solution 1500 μS/cm Conductivity Solution 84 μS/cm Conductivity Solution 12880 μS/cm Conductivity Solution 2764 μS/cm Conductivity Solution Revision Date 05-Sep-2019

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

Most important symptoms and effects, both acute and delayed

Most important symptoms and

23 µS/cm Conductivity

effects

None reasonably foreseeable

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

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 UpSoak 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

CONDUCTIVITY / TSD STANDARD SOLUTIONS

Conductivity / TSD Standard Solutions 1413 µS/cm Conductivity Solution 1500 µS/cm Conductivity Solution 84 µS/cm Conductivity Solution 12880 µS/cm Conductivity Solution 2764 µS/cm Conductivity Solution 23 µS/cm Conductivity

Revision Date 05-Sep-2019

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 Chloride	7447-40-7	Not listed	Not listed	Not listed

Component	CAS-No	European Union	The United Kingdom	Germany
Water	7732-18-5	Not listed	Not listed	Not listed
Potassium Chloride	7447-40-7	Not listed	Not listed	Not listed

Biological Exposure Indices

Component CAS-No		Biological Exposure Indices
Water	7732-18-5	Not listed
Potassium Chloride	7447-40-7	Not listed

Appropriate engineering controls

Engineering Measures None under normal use conditions

Individual protection measures, such as personal protective equipment

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 State Liquid
Appearance Clear
Odor None

Odor Threshold No information available

pH 6.25 **PH Range** 4.75 - 7.75

Conductivity / TSD Standard Solutions 1413 µS/cm Conductivity Solution 1500 µS/cm Conductivity Solution 84 µS/cm Conductivity Solution 12880 µS/cm Conductivity Solution 2764 µS/cm Conductivity Solution 23 µS/cm Conductivity

Revision Date 05-Sep-2019

Remarks • Method

 Property
 Values

 Melting point/freezing point
 No information available

 Boiling Point/Range
 ~ 100 °C / 212 °F

 Flash Point (High in °C)
 N/A

Evaporation Rate

Flammability (solid, gas)

Flammability Limit in Air

No information available
No information available

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor Density
Specific Gravity
Water Solubility

No information available
No information available
No information available
soluble

Solubility in other solvents

Partition coefficient

No information available
No information available

Autoignition Temperature -

Decomposition Temperature
Kinematic viscosity
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

CONDUCTIVITY / TSD STANDARD SOLUTIONS

Conductivity / TSD Standard Solutions 1413 μS/cm Conductivity Solution 1500 μS/cm Conductivity Solution 84 μS/cm Conductivity Solution 12880 μS/cm Conductivity Solution 2764 μS/cm Conductivity Solution 23 μS/cm Conductivity

Revision Date 05-Sep-2019

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

No information available

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

Target Organs None known.

Aspiration hazard No information available

Numerical measures of toxicity - Product Information

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component	Freshwater Algae	Freshwater Fish	Water Flea
Potassium Chloride	EC50: = 2500 mg/L, 72h	LC50: = 1060 mg/L, 96h static	EC50: = 83 mg/L, 48h Static
7447-40-7	(Desmodesmus subspicatus)	(Lepomis macrochirus)	(Daphnia magna)
		LC50: 750 - 1020 mg/L, 96h static	EC50: = 825 mg/L, 48h (Daphnia
		(Pimephales promelas)	magna)

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

Mobility

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

Other adverse effects

Conductivity / TSD Standard Solutions 1413 μS/cm Conductivity Solution 1500 μS/cm Conductivity Solution 84 μS/cm Conductivity Solution 12880 μS/cm Conductivity Solution 2764 μS/cm Conductivity Solution 23 μS/cm Conductivity Revision Date 05-Sep-2019

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

<u>IATA</u> 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	-	X	-	Х
Potassium Chloride	7447-40-7	KE-29086	Х	231-211-8	Х	Х	-	Х	Х	Х

Component	CAS-No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	(2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	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 Chloride	7447-40-7	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 Exempt (Index No. 25)	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Annex 1 - KE-29086	Not applicable	Not applicable

Revision Date 05-Sep-2019

Conductivity / TSD Standard Solutions 1413 µS/cm Conductivity Solution 1500 µS/cm Conductivity Solution 84 µS/cm Conductivity Solution 12880 µS/cm Conductivity Solution 2764 µS/cm Conductivity Solution 23 µS/cm Conductivity

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 Chloride	7447-40-7	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/Us (% in mixtures)
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	Not applicable	Not applicable	Not applicable
Component	CAS-No	Waste Control Law	Ministry of Environment - CMR risk	Ministry of Environmer Critically Controlled Substance
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	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 Chloride	7447-40-7	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 Chloride	7447-40-7	Not applicable	Not applicable	Not applicable
Component	CAS-No	ISHA - Subject to Process Safety Reports (minimum quantity)	ISHA - Threshold Limit Values (TLVs) Chemicals	ISHA - Special management materia
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Walei				

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
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	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 Chloride	7447-40-7	Not listed	Not listed

Conductivity / TSD Standard Solutions 1413 μS/cm Conductivity Solution 1500 μS/cm Conductivity Solution 84 μS/cm Conductivity Solution 12880 μS/cm Conductivity Solution 2764 μS/cm Conductivity Solution 23 μS/cm Conductivity

Revision Date 05-Sep-2019

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 Chloride	7447-40-7	Not applicable	Not applicable

CERCLA Not applicable

Component	CAS-No	CERCLA EHS RQs	Hazardous Substances	SARA 313 - Threshold
			RQs	Values %
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Potassium Chloride	7447-40-7	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 Thermo Fisher Scientific©

Water and Lab Products

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1-978-232-6000

Prepared For Cole-ParmerTM

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Reason for revision Initial Release.

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Disclaimer

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End of Safety Data Sheet