# thermo scientific

## SAFETY DATA SHEET

MOEL's Public Notice No. 2023-9 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

WAI4 - KGHS - KOREAN Issue Date 05-Sep-2019 Revision Date 17-May-2023 Revision Number 2

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

**Product Identifier** 

Product Name Potassium Ionic Strength Adjuster

Product No 931911

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)

Made in USA

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## **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

This product does not contain any known or suspected endocrine disruptors

NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

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

#### 3.2. Mixtures

	Component	Common Name	CAS No	Index No	Weight percent
	Water	No information available	7732-18-5	KE-35400	70 - 80
Sodium chloride		No information available	7647-14-5	KE-31387	20 - 30

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

## **Description of 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** Remove to fresh air. Get medical attention immediately if symptoms occur.

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**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

#### **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 as required.

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

Information. Vapours may accumulate to form explosive concentrations.

#### 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 labelled containers.

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

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

Handling Wear personal protective equipment/face protection

Ensure adequate ventilation

Avoid contact with skin, eyes or 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

Protect from direct sunlight

#### **Potassium Ionic Strength Adjuster**

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
Sodium chloride	7647-14-5	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	
Sodium chloride	7647-14-5	Not listed	Not listed	Not listed	

**ACGIH - Biological Exposure Indices** 

Component	CAS No	ACGIH - Biological Exposure Indices
Water	7732-18-5	Not listed
Sodium chloride	7647-14-5	Not listed

#### **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:. Face

protection shield.

**Skin and Body Protection** Wear protective gloves/protective 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
Odour None

Odour Threshold No information available

**pH** 6.3 **PH Range** 4.7 - 8.0

Property Values Remarks • Method

Melting point/freezing pointNo information availableBoiling point/range~ 100 °C / 212 °F

Flash Point N/A

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

Flammability Limit in Air

**Upper flammability limit:**No information available

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Lower flammability limit No information available Vapour pressure No information available Vapour Density No information available Specific Gravity No information available Water Solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available

**Autoignition Temperature** 

**Decomposition Temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive Properties** No information available **Oxidising Properties** No information available

#### **Other Information**

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

## 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 vapours.

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

#### **Product Information**

#### Information on likely routes of exposure

Not an expected route of exposure. Inhalation

No known effect based on information supplied. Ingestion

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

No known effect based on information supplied. Skin

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water 7732-18-5	LD50 > 90 mL/kg (Rat)	-	-
Sodium chloride 7647-14-5	LD50 = 3 g/kg (Rat)	LD50 > 10000 mg/kg ( Rabbit )	LC50 > 42 mg/L (Rat) 1 h

#### Information on Toxicological Effects

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Symptoms No information available

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

Sensitisation 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

Aspiration hazard No information available

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 10345 mg/kg **ATEmix (dermal)** 34517 mg/kg

## **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
Sodium chloride	-	LC50: 6420 - 6700 mg/L, 96h static	EC50: 340.7 - 469.2 mg/L, 48h
7647-14-5		(Pimephales promelas)	Static (Daphnia magna)
		LC50: 4747 - 7824 mg/L, 96h	EC50: = 1000 mg/L, 48h (Daphnia
		flow-through (Oncorhynchus	magna)
		mykiss)	
	LC50: 6020 - 7070 mg/L, 96h sta		
		(Pimephales promelas)	
		LC50: = 12946 mg/L, 96h static	
		(Lepomis macrochirus)	
		LC50: 5560 - 6080 mg/L, 96h	
		flow-through (Lepomis macrochirus)	
		LC50: = 7050 mg/L, 96h semi-static	
		(Pimephales promelas)	

## Persistence and Degradability

No information available

#### **Bioaccumulation**

No information available

#### **Mobility**

No information available.

#### Other adverse effects

No information available

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

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#### **Potassium Ionic Strength Adjuster**

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/IMONot regulatedMarine PollutantNot 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	X	X
Sodium chloride	7647-14-5	KE-31387	Х	231-598-3	Х	Х	-	Χ	Х	X

Component	CAS No	Seveso III Directive (2012/18/EC) - (2012/18/EC) - Qualifying Quantities		Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		for Major Accident	for Safety Report		
		Notification	Requirements		
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable
Sodium chloride	7647-14-5	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
Sodium chloride	7647-14-5	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
Sodium chloride	7647-14-5	Annex 1 - KE-31387	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
Sodium chloride	7647-14-5	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)
L	Water	7732-18-5	Not applicable	Not applicable	Not applicable

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	Sodium chloride 7647-14-5		Not applicable	Not applicable	Not applicable
	Component	CAS No	Waste Control Law	Ministry of Environment -	Ministry of Environment -
				CMR risk	Critically Controlled
L				Substance	
	Water	7732-18-5	Not applicable	Not applicable	Not applicable
	Sodium chloride	7647-14-5	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
Sodium chloride	7647-14-5	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
Sodium chloride	7647-14-5	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 materials
Water	7732-18-5	Not applicable	Not applicable	Not applicable
Sodium chloride	7647-14-5	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
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Sodium chloride	7647-14-5	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

## **Control Parameters**

Component	CAS No	Korea	<b>ACGIH - Biological Exposure Indices</b>	
Water	7732-18-5	Not listed	Not listed	
Sodium chloride	7647-14-5	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	
Sodium chloride	7647-14-5	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
Sodium chloride	7647-14-5	Not applicable	Not applicable	Not applicable

## **GHS Classification**

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

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## **SECTION 16: OTHER INFORMATION**

Prepared By Regulatory Affairs

Prepared For Thermo Fisher Scientific Inc.©

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Reason for revision Initial Release.

## MOEL's Public Notice No. 2023-9 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

## <u>Disclaimer</u>

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**End of Safety Data Sheet**