

SAFETY DATA SHEET

Revision Date 01-Apr-2024

Revision Number 3

1. Identification

1. Idontinoution
Potassium chloride, 0.005M, Conductivity Standard
42680
No information available
Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information US call: 001-800-227-6701 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No. US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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 %
Water	7732-18-5	99.963
Potassium chloride	7447-40-7	0.037

4. First-aid measures								
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minute 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.							
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.							
Most important symptoms and effects	None reasonably foreseeable.							
Notes to Physician	Treat symptomatically							

5. Fire-fighting measures

Suitable Extinguishing Media	Not combustible.
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	No information available No information available

Specific Hazards Arising from the Chemical

None reasonably foreseeable.

Hazardous Combustion Products

Hydrogen chloride. Potassium 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 0	Physical hazards -
	6. Accidental re	lease measures	
Personal Precautions	Ensure adequate ventilatio	n. Use personal protective equ	uipment as required.

Personal Precautions Environmental Precautions Ensure adequate ventilation. Use personal protective equipment as req Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. 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.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place.
8. E	Exposure controls / personal protection
Exposure Guidelines	
Legend	
ACGIH - American Conference of Gover OSHA - Occupational Safety and Health NIOSH: NIOSH - National Institute for C	Administration
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.
	9. Physical and chemical properties
Physical State	Liquid
Appearance	No information available
Odor Odor Threshold	Odorless No information available
pH	No information available
Melting Point/Range	No data available

Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

74.55

No data available No information available

Not applicable

No data available No data available 23 hPa @ 20 °C

No data available No information available

No information available

No information available

No information available

No information available

No information available

No information available

No information available

KCI, 718mmho@25o

		10. Stal	bility and rea	activity						
Reactive Hazard	eactive Hazard None known, based on information available									
Stability		Stable under nor	Stable under normal conditions.							
Conditions to Avoid	ł	Incompatible pro	compatible products.							
Incompatible Mater	ials	Strong oxidizing	agents							
Hazardous Decomp	Hazardous Decomposition Products Hydrogen chloride, Potassium oxides									
Hazardous Polyme	ization	Hazardous polyr	nerization does not	occur.						
Hazardous Reaction	ns	None under norr	nal processing.							
		11. Toxic	cological info	ormation						
Acute Toxicity										
Product Information Oral LD50 Dermal LD50 Vapor LC50 Component Informa		Based on ATE d	ata, the classificatio ata, the classificatio ata, the classificatio	n criteria are not me	et. ATE > 2000 mg					
Componer Water	nt	LD50 Oral		LD50 Dermal		Inhalation				
Potassium chl	oride	LD50 = 2600 mg/kg	(Rat)	Not listed	No	Not listed				
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure										
					No information available					
Irritation		No information a	vailable							
Irritation Sensitization		No information a No information a								
		No information a		ach agency has list	ed any ingredient a	as a carcinogen.				
Sensitization Carcinogenicity Component	CAS No	No information a The table below IARC	indicates whether e	ACGIH	OSHA	Mexico				
Sensitization Carcinogenicity Component Water	7732-18-	No information a The table below IARC 5 Not listed	indicates whether e	ACGIH Not listed	OSHA Not listed	Mexico Not listed				
Sensitization Carcinogenicity Component		No information a The table below IARC 5 Not listed	indicates whether e NTP Not listed Not listed	ACGIH	OSHA	Mexico				
Sensitization Carcinogenicity Component Water Potassium chloride	7732-18-5 7447-40-7	No information a The table below IARC 5 Not listed 7 Not listed	vailable indicates whether e <u>NTP</u> Not listed Not listed vailable	ACGIH Not listed	OSHA Not listed	Mexico Not listed				
Sensitization Carcinogenicity Component Water Potassium chloride Mutagenic Effects	7732-18-{ 7447-40-} ts	No information a The table below IARC 5 Not listed 7 Not listed No information a	vailable indicates whether e <u>NTP</u> Not listed vailable vailable.	ACGIH Not listed	OSHA Not listed	Mexico Not listed				
Sensitization Carcinogenicity Component Water Potassium chloride Mutagenic Effects Reproductive Effect	7732-18-{ 7447-40-} ts	No information a The table below IARC 5 Not listed 7 Not listed No information a No information a	vailable indicates whether e <u>NTP</u> Not listed vailable vailable. vailable.	ACGIH Not listed	OSHA Not listed	Mexico Not listed				
Sensitization Carcinogenicity Component Water Potassium chloride Mutagenic Effects Reproductive Effect Developmental Effect	7732-18- 7447-40- ts ects sure	No information a The table below IARC 5 Not listed 7 Not listed No information a No information a No information a	vailable indicates whether e <u>NTP</u> Not listed vailable vailable. vailable.	ACGIH Not listed	OSHA Not listed	Mexico Not listed				
Sensitization Carcinogenicity Component Water Potassium chloride Mutagenic Effects Reproductive Effect Developmental Effect Teratogenicity STOT - single expo	7732-18- 7447-40- ts ects sure	No information a The table below IARC 5 Not listed 7 Not listed No information a No information a No information a No information a No information a	vailable indicates whether e <u>NTP</u> Not listed vailable vailable. vailable.	ACGIH Not listed	OSHA Not listed	Mexico Not listed				
Sensitization Carcinogenicity Component Water Potassium chloride Mutagenic Effects Reproductive Effect Developmental Effect Teratogenicity STOT - single expo STOT - repeated ex Aspiration hazard	7732-18- 7447-40- ts ects sure posure	No information a The table below IARC 5 Not listed 7 Not listed No information a No information a No information a No information a No information a No information a	vailable indicates whether e <u>NTP</u> Not listed vailable vailable. vailable. vailable.	ACGIH Not listed	OSHA Not listed	Mexico Not listed				
Sensitization Carcinogenicity Component Water Potassium chloride Mutagenic Effects Reproductive Effect Developmental Effect Teratogenicity STOT - single expo STOT - repeated ex Aspiration hazard Symptoms / effects	7732-18- 7447-40- ts ects sure posure s,both acute	No information a The table below IARC 5 Not listed 7 Not listed 7 No information a No information a No information a No information a None known None known None known No information a and No information a	vailable indicates whether e <u>NTP</u> Not listed vailable vailable. vailable. vailable.	ACGIH Not listed	OSHA Not listed	Mexico Not listed				

12. Ecological information

Ecotoxicity

Contains a substance which is:. Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater	Algae	Freshwater Fish	Microtox	Water Flea	
Potassium chloride	F		50: 2500 mg/L/72h Lepomis macrochirus: LC50: Not listed 1060 mg/L /96h Pimephales promelas: LC50: 750 - 1020 mg/L /96h		EC50: 825 mg/L/48h	
Persistence and Degrada	ibility Mi	scible with	water Persistence is unlike	ely based on information a	vailable.	
Bioaccumulation/Accum	ulation No	o informatio	on available.			
Mobility Will likely be mobile in the environment due to its water solubility.						
13. Disposal considerations						
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classificity hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification					local, regional, and	
		14.7	ransport informa	ation		
DOT TDG		ot regulate ot regulate				

IATA	Not regulated
IMDG/IMO	Not regulated

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Water	7732-18-5	Х	ACTIVE	-
Potassium chloride	7447-40-7	Х	ACTIVE	-

15. Regulatory information

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - 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
Water	7732-18-5	Х	-	231-791-2	Х	Х		Х	Х	KE-35400
Potassium chloride	7447-40-7	Х	-	231-211-8	Х	Х	Х	Х	Х	KE-29086

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

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)

Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

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.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-

U.S. Department of Transportation

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

U.S. Department of Homeland The Security

This product does not contain any DHS chemicals.

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)
Water	7732-18-5	-	-	-
Potassium chloride	7447-40-7	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Potassium chloride	7447-40-7	Listed	Not applicable	Not applicable	Not applicable

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	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

	16. Other information	
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com	
Revision Date Print Date Revision Summary	01-Apr-2024 01-Apr-2024 New emergency telephone response service provider.	

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