

SAFETY DATA SHEET

Creation Date 13-Jul-2011

Revision Date 24-May-2017

Revision Number 2

1. Identification

Potassium Reference Standard Solution, 1000ppm (Certified)

Product Name

SP351-100; SP351-500

Cat No. : Synonyms

None

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

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

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC) None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %
Water	7732-18-5	> 99.5
Potassium chloride	7447-40-7	< 0.5

4. First-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting. Get medical attention if symptoms occur.
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
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 Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products

Hydrogen chloride gas 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 1	Flammability 0	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	Use personal protective equestion and clothing.	uipment. Ensure adequate ven	tilation. Avoid contact with skin,
Environmental Precautions	Avoid release to the enviror	nment.	

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
	8. Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Liquid
Appearance	Colorless
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	0 °C / 32 °F
Boiling Point/Range	100 °C / 212 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	14 mmHg @ 20 °C
Vapor Density	0.7
Specific Gravity	1.0
Solubility	miscible
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity

Reactive Hazard None known, based on information available		
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Excess heat.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Hydrogen chloride gas, Potassium oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	

Acute Toxicity

Product Information

Component Information	
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Componen	it	LD50 Oral					
Water		-		Not listed		Not listed	
Potassium chloride LD50 = 2600 mg/kg (Rat)			(Rat)	Not listed	No	ot listed	
Foxicologically Syn	ergistic	No information a	vailable		1		
Products							
Delayed and immed	iate effects	as well as chronic ef	fects from short ar	nd long-term expo	osure		
rritation		No information a	vailable				
Sensitization		No information a	vailable				
Carcinogenicity		The table below	indicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.	
Component	CAS-N	o IARC	NTP	ACGIH	OSHA	Mexico	
Water	7732-18		Not listed	Not listed	Not listed	Not listed	
Potassium chloride	7447-40	-7 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information a	No information available				
Reproductive Effects No information available.							
Developmental Effe	ntal Effects No information available.						
Feratogenicity		No information a	No information available.				
STOT - single expos STOT - repeated ex		None known None known					
Aspiration hazard		No information a	vailable				
Symptoms / effects delayed	,both acute	e and No information a	d No information available				
Endocrine Disruptor Information No information available							
	Other Adverse Effects The toxicological properties						

12. Ecological information

Ecotoxicity

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea
Potassium chloride	EC50: 25	500 mg/L/72h	Lepomis macrochirus: LC50:	Not listed	EC50: 825 mg/L/48h
			1060 mg/L /96h		
			Pimephales promelas: LC50:		
			750 - 1020 mg/L /96h		
Persistence and Degrada	ability	Miscible with	water Persistence is unlike	ly based on information	available.
Bioaccumulation/ Accumulation No information		on available.			
Mobility	. Will likely be		e mobile in the environment	due to its water solubili	ty.
13. Disposal considerations					
Waste Disposal Methods	5	Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			

Rhode Island

	14. Transport information	
DOT	Not regulated	
DOT TDG IATA	Not regulated	
ΙΑΤΑ	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Potassium chloride	Х	Х	-	231-211-8	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

No No No No

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard	zard
CWA (Clean Water Act)	Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations		Not app	licable		
	Component	Massachusetts	New Jersey	Pennsylvania	Illinois
	Water	-	-	Х	-

U.S. Department of Transportation

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

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available			
	16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	13-Jul-2011 24-May-2017 24-May-2017 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

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