# **Safety Data Sheet**

Revision Date 2021-04-26



**Revision Number** 1

# 1. Identification Product identifier SMART-Seq sc First Strand Buffer **Product Name** Other means of identification **Product Code** ST2184 Synonyms No information available Recommended use of the chemical and restrictions on use Identified uses No information available **Restrictions on use** No information available Details of the supplier of the safety data sheet Supplier USA: Takara Bio USA, Inc.

Takara Bio USA, Inc. 1290 Terra Bella Avenue Mountain View, CA 94043 Phone: 800.662.2566/888.251.6618 Web: www.takarabio.com

## Emergency telephone number

**Emergency telephone** 

In case of emergency, call PERS (Professional Emergency Resource Services) 1-800-633-8253 (US) or 801-629-0667 (international).

# 2. Hazard(s) identification

## **Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

## Hazards not otherwise classified (HNOC)

Not applicable

## Label elements

#### <u>Hazard statements</u> This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Clear, colorless

Physical state Liquid

Odor Unpleasant

# Other information

No information available.

# 3. Composition/information on ingredients

## Substance

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%	Trade secret
Potassium chloride	7447-40-7	1 - 5	*
Magnesium chloride hexahydrate	7791-18-6	1 - 5	*

# 4. First-aid measures

## **Description of first aid measures**

Inhalation	Remove to fresh air.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin contact	Wash skin with soap and water.		
Ingestion	Clean mouth with water and drink afterwards plenty of water.		
Most important symptoms and effe			
Symptoms	No information available.		
Indication of any immediate medica	I attention and special treatment needed		
Note to physicians	Treat symptomatically.		
	5. Fire-fighting measures		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the		
Suitable Extinguishing Media Large Fire			
0 0	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.		
Large Fire Unsuitable extinguishing media Specific hazards arising from the	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient. Do not scatter spilled material with high pressure water streams. No information available.		

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Special protective equipment for<br/>fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout<br/>gear. Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures				
Personal precautions Ensure adequate ventilation.				
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 Pick up and transfer to properly labeled containers.				

# 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

Appropriate engineering controls	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor Threshold	Liquid Clear, colorless No information available Unpleasant No information available	
Property_	Values	Remarks • Method
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point/boiling range (°C)	No data available	None known
Flash point	No data available	Open cup
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic Viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular Weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk Density	No information available	

# 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	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

## Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)58,341.80 mg/kg

# **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium chloride 7447-40-7	= 2600 mg/kg (Rat)	-	-
Magnesium chloride hexahydrate 7791-18-6	= 8100 mg/kg(Rat)	-	-

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

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

# 12. Ecological information

## Ecotoxicity

Chemical name Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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Potassium chloride 7447-40-7	2500: 72 h Desmodesmus subspicatus mg/L EC50	750 - 1020: 96 h Pimephales promelas mg/L LC50 static 1060: 96 h Lepomis macrochirus mg/L LC50 static	-	825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static
Magnesium chloride hexahydrate 7791-18-6	82.7: 72 h Pseudokirchneriella subcapitata mg/L EC50	1970 - 3880: 96 h Pimephales promelas mg/L LC50 static	-	140: 48 h Daphnia magna mg/L EC50 Static
Persistence and degrada				L
Bioaccumulation	There is no d	ata for this product.		
Other adverse effects	No informatio	on available.		
	13. D	visposal considerat	tions	
Waste treatment method	<u>s</u>			
Waste from residues/unusedDispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.				
Contaminated packaging Do not reuse empty containers.				
	14.	Transport informat	tion	
DOT	Not regulated	1		
TDG	Not regulated	1		
MEX	Not regulated	ł		
ICAO (air)	CAO (air) Not regulated			
	ATA Not regulated			
IMDG	Not regulated			
RID	Not regulated			
ADR	Not regulated	i		
ADN	Not regulated	1		
	15. F	Regulatory informa	tion	

# International Inventories

# TSCA -.

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\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

### DSL/NDSL

EINECS/ELINCS	
ENCS	
IECSC	
KECL	
PICCS	
AICS	

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS Australian Inventory of Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### 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)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **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.

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information				
<u>NFPA</u>	Health hazards 0	Flammability 0	Instability 0	Special hazards $\ -$ Personal protection $\ X$
HMIS	Health hazards 0	Flammability 0	Physical hazards 0	

Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION					
TWA	Time weighted average	STEL	Short term exposure limit		
Ceiling	Maximum limit value	*	Skin designation		
Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta U.S. Environmenta Food Research Jo Hazardous Substa International Unifo Japan GHS Classi Australia National NIOSH (National I National Library of National Library of National Toxicolog New Zealand's Ch Organization for E Organization for E World Health Orga	ance Database rm Chemical Information Database (IUCLID ification Industrial Chemicals Notification and Asses nstitute for Occupational Safety and Health) if Medicine's ChemID Plus (NLM CIP) if Medicine's PubMed database (NLM PUBM gy Program (NTP) nemical Classification and Information Datab conomic Co-operation and Development En conomic Co-operation and Development Hig conomic Co-operation and Development Sc anization	ingicide, and Ro ne Chemicals )) sment Scheme (ED) pase (CCID) ivironment, Hea gh Production \	odenticide Act • (NICNAS) alth, and Safety Publications /olume Chemicals Program		
Revision Date	2021-04-26				

Revision Date2021-04-26Revision NoteNo information available.

#### **Disclaimer**

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#### End of Safety Data Sheet