# Safety Data Sheet

Revision Date 2023-12-30

**Revision Number** 7

1. Identification		
Product identifier		
Product Name	DNA SMART Buffer	
Other means of identification		
Product Code	ST0842	
Synonyms	No information available	
Recommended use of the chemical	and restrictions on use	
Identified uses	For research use only. Not for use in diagnostic procedures	
Restrictions on use	No information available	
Details of the supplier of the safety	data sheet	
<u>Supplier</u> USA: Takara Bio USA, Inc. 2560 Orchard Parkway San Jose, CA 95131, USA Phone: 800.662.2566/888.251.661 Web: www.takarabio.com	18	
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

### Product Classification Data

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

### Hazard statements

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 Odorless

### 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	*

### 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	Rinse mouth.

### Most important symptoms and effects, both acute and delayed

Symptoms No information available.

### Indication of any immediate medical 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 surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Explosion Data	

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout 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

### Control parameters

Appropriate engineering controls	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	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	Liquid	
Appearance	Clear, colorless	
Color	Clear	
Odor	Odorless	
Odor Threshold	No information available	
Property_	Values	Remarks • Method
рН	7-9	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 re	activity
Popotivity	No information available	

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 su	ubstance or mixture is not availab	ble.	
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 calculate ATEmix (oral) ATEmix (dermal)	d based on chapter 3.1 of tl 62,956.40 mg/kg 165,098.20 mg/kg	he GHS document		
Component Information	0.11.050			
Chemical name Potassium chloride	Oral LD50 = 2600 mg/kg (Rat)	Dermal LD50	Inhalation LC50	
7447-40-7				
Delayed and immediate effects as	well as chronic effects from	n short and long-term exposure	9	
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

Potassium chloride 7447-40-7       EC50: =2500mg/L (72h, Desmodesmus subspicatus)       LC50: =1060mg/L (96h, Lepomis macrochirus) LC50: 750 - 1020mg/L (96h, Pimephales promelas)       -       EC50: =825mg/L (48h, Daphnia magna)         Persistence and degradability       No information available.       EC50: =83mg/L (48h, Daphnia magna)       EC50: =83mg/L (48h, Daphnia magna)         Bioaccumulation       There is no data for this product.       -       .       .         Other adverse effects       No information available.       -       .       .         Waste treatment methods       Uspose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.       .       Dispose of not reuse empty containers.	Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Bioaccumulation       There is no data for this product.         Other adverse effects       No information available.         13. Disposal considerations         Waste treatment methods         Waste from residues/unused products         Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		Desmodesmus	Lepomis macrochirus) LC50: 750 - 1020mg/L (96h, Pimephales	-	Daphnia magna) EC50: =83mg/L (48h,
Other adverse effects       No information available.         13. Disposal considerations         Waste treatment methods         Waste from residues/unused products         Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	Persistence and degradability No information available.				
Intermediation         Intermediation of an endoded         Maste treatment methods         Waste from residues/unused products       Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	Bioaccumulation	ioaccumulation There is no data for this product.			
Waste treatment methods         Waste from residues/unused products       Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	Other adverse effects	No informatic	No information available.		
Waste treatment methods         Waste from residues/unused products       Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.					
Waste from residues/unused productsDispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	13. Disposal considerations				
products environmental legislation.	Waste treatment method	<u>s</u>			
Contaminated packaging       Do not reuse empty containers.		•		ulations. Dispose of waste	in accordance with
	Contaminated packaging	Do not reuse	empty containers.		

# 14. Transport information

DOT

Not regulated

# 15. Regulatory information

International Inventories		
TSCA		
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

#### 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

This product does not contain any substances regulated under applicable state right-to-know regulations

### U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

16. Other information						
NFPA	Health hazards 0	Flammability	0	Instability 0	Special hazards -	
<u>HMIS</u>	Health hazards 1	Flammability	0	Physical hazards 0	Personal protection X	
	to abbreviations and acrony on 8: EXPOSURE CONTROL			eet		
TWA	Time weighted average	average STEL		Short term exposure limit		
Ceiling	Maximum limit value	*		Skin designation		
Key literature	references and sources for d	lata used to compile	the SDS			

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) U.S. National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision Date	2023-12-30
Revision Note	No information available.

### **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 Safety Data Sheet