

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2020/2008

Revision Date 06-Dec-2023 Revision Number 4

EGHS / English

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s) B-002000-UB-100

Product Name 5X Buffer Solution

Chemical name

Reach Number A registration number is not required for this substance.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals.

Uses advised againstNo information available.

1.3. Details of the supplier of the safety data sheet

Supplier Name Dharmacon Inc.

Revvity, Inc.

Supplier Address 2560 Crescent Drive Suite 100

Lafayette, Co 80026

Supplier Phone Number Tel: (303)-604-9499

Fax: (303)-604-9680

Supplier Email technical@horizondiscovery.com

For further information, please contact.

1.4. Emergency telephone number

Emergency telephone Chemtrec International 1-703-741-5970

Emergency telephone §45 - (EC)1272/2008

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Europe	112	
	SECTION 2: Hazards identification	

2.1. Classification of the substance or mixture

Classification of substance according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture.

2.2. Label elements

Label elements according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture.

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1 Substances

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

Chemical name	EC No	CAS-No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No.
Water	-	7732-18-5	20-50%	No data available	No data available
Potassium Chloride	-	7447-40-7	0-20%	No data available	No data available
Magnesium Chloride	-	7786-30-3	0-5%	No data available	No data available
HEPES	-	7365-45-9	0-10%	No data available	No data available

^{*} Any concentration shown as a range is to protect confidentiality or is due to process variation.

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC)

No. 1907/2006 (REACH), Article 59)

Chemical name	CAS-No	SVHC candidates
HEPES	7365-45-9	-
Potassium Chloride	7447-40-7	•
Water	7732-18-5	-
Magnesium Chloride	7786-30-3	-

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air.

Skin contact Wash off immediately with plenty of water for at least 15 minutes.

Eye contactRinse thoroughly with plenty of water for at least 15 minutes, lifting lower and

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^{**}All components need not be disclosed according to applicable regulations due to non-hazardous classification status.

upper eyelids. Consult a physician.

Ingestion DO NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

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

Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

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6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Risk Management Methods

(RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with

occupational exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand Protection Protective gloves.

Skin and body protection Wear suitable protective clothing.

Environmental exposure

controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid Colour Clear

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Odour Data not relevant for safe use

Property Values Remarks Method Melting / freezing point Data not relevant for safe use None known Boiling point / boiling range Data not relevant for safe use None known Data not relevant for safe use **Flammability** None known **Lower and Upper Exposure Limit** Data not relevant for safe use None known **Flash Point** Data not relevant for safe use None known **Auto-ignition Temperature** Data not relevant for safe use None known Flammability Limit in Air Data not relevant for safe use None known **Decomposition Temperature** Data not relevant for safe use None known Data not relevant for safe use None known Kinematic viscosity Data not relevant for safe use None known Solubility Soluble in water None known Partition coefficient: n-octanol/water Data not relevant for safe use None known Vapour pressure Data not relevant for safe use None known **Density / Relative Density** Data not relevant for safe use None known Relative vapour density Data not relevant for safe use None known

Data not relevant for safe use

Data not relevant for safe use

9.2. Other information

Particle characteristics

Decomposition temperature

Softening Point

Molecular Weight

VOC Content (%)

Liquid Density

Bulk Density

Particle Size

Particle Size

Data not relevant for safe use

SECTION 10: Stability and reactivity

None known

None known

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Possibility of Hazardous

Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

Incompatible materials.

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10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Test data is not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture.

Information on likely routes of exposure

Product Information

InhalationSpecific test data for the substance or mixture is not available.Eye contactSpecific test data for the substance or mixture is not available.Skin contactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

Information on toxicological effects

Symptoms No information available.

Numerical measures of toxicity

Acute Toxicity Shall not be classified as acutely toxic.

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

Skin corrosion/irritation Serious eye damage/eyeNo information available.
No information available.

irritation

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.

11.2. Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors.

SECTION 12: Ecological information

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12.1. Ecotoxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors.

12.7 Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance

with environmental legislation.

Contaminated packaging No information available.

SECTION 14: Transport information

<u>IMDG</u>

14.1UN NumberNot regulated14.2Proper Shipping NameNot regulated14.3Hazard ClassNot regulated14.4Packing groupNot regulated14.5Marine PollutantNot applicable14.6Special ProvisionsNone

14.6 Special Provisions None

14.7 Transport in bulk Not applicable

according to Annex II of MARPOL and the IBC Code

RID

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14.1	UN-No.	Not regulated
14.2	Proper Shipping Name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing Group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special Provisions	None

<u>ADR</u>

14.1 UN-No.	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable

14.6 Special Provisions None

IATA

14.1	UN Number	Not regulated
14.2	Proper Shipping Name	Not regulated
14.3	Hazard Class	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable

14.6 Special Provisions None

SECTION 15: Regulatory information

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Persistent Organic Pollutants

Not applicable.

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

International Inventories

TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

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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

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value - Skin designation

Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date 06-Dec-2023

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2020/2008.

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

Data for Regulatory Rules

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