

# SAFETY DATA SHEET

United States

Section 1. Identification Product name

# Lysis buffer type 7; part of 'illustra™ plasmidPrep Mini Spin Kit, 50 purifications' 9 0 2 8 9 0 4 2 6 9

**Catalogue Number** 

28-9042-69

Other means of identification Not available. Product type Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Use in laboratories

Industrial applications: Analytical reagent. Research.

#### Supplier

Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313

Cytiva USA 100 Results Way Marlborough, MA 01752 1-800-526-3593

In case of emergency	ChemTrec US (available 24/7) 1-800-424-9300
Section 2. Hazards ident	tification
OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	Not classified.
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1.2% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1.2% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1.2% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.2%
GHS label elements	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazards not otherwise classified	None known.



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## Section 3. Composition/information on ingredients

Substance/mixture Other means of identification	Mixture Not available.		
CAS number/other identifiers CAS number	Not applicable.		
Ingredient name trometamol		<b>%</b> 1.21	<b>CAS number</b> 77-86-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

## Most important symptoms/effects, acute and delayed

Potential acute health effects			
Eye contact	No known significant effects or critical hazards.		
Inhalation	No known significant effects or critical hazards.		
Skin contact	No known significant effects or critical hazards.		
Ingestion	No known significant effects or critical hazards.		
Over-exposure signs/symptom	<u>s</u>		
Eye contact	No specific data.		
Inhalation	No specific data.		
Skin contact	No specific data.		
Ingestion	No specific data.		
Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
Specific treatments	No specific treatment.		
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.		
See toxicological information (Section 11)			

## Section 5. Fire-fighting measures

## Extinguishing media Suitable extinguishing media Use

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.		
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).		
Methods and materials for containment and cleaning up			
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water- soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		
Section 7. Handling and	storage		

## Section 7. Handling and storage

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### Control parameters

<u>Control parameters</u>	
Occupational exposure limits trometamol	-
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.



## Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	Liquid.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	7.5 [Conc. (% w/w): 100%]
Melting point	Not available.
Boiling point	Not available.
Flash point	[Product does not sustain combustion.]
Burning time	Not applicable.
Burning rate	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower and upper explosive (flammable) limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility	Easily soluble in the following materials: cold water and hot water.
Solubility in water	Not available.
Partition coefficient: n-octanol/ water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
SADT	Not available.
Viscosity	Not available.
Flow time (ISO 2431)	Not available.
A avec all we do at	

## Aerosol product

## Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity Not available.

Irritation/Corrosion Not available.

Sensitization Not available.

Mutagenicity Not available.

Carcinogenicity Not available.

Reproductive toxicity

Not available.

Teratogenicity Not available.

Specific target organ toxicity (single exposure)



	Not	available.
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Not available.			
<u>Specific target organ toxicity (r</u>	epeated exposure)		
Not available.			
Aspiration hazard Not available.			
Information on the likely routes of exposure	Routes of entry anticipated:	Dral, Dermal, Inhalation.	
Potential acute health effects			
Eye contact	No known significant effects	or critical hazards.	
Inhalation	No known significant effects		
Skin contact	No known significant effects		
Ingestion	No known significant effects	or critical hazards.	
Symptoms related to the physica	al, chemical and toxicologica	al characteristics	
Eye contact	No specific data.		
Inhalation	No specific data.		
Skin contact	No specific data.		
Ingestion	No specific data.		
Delayed and immediate effects a	nd also chronic effects from	short and long term exposur	<u>e</u>
Short term exposure			
Potential immediate effects	Not available.		
Potential delayed effects	Not available.		
Long term exposure			
Potential immediate effects	Not available.		
Potential delayed effects	Not available.		
Potential chronic health effects			
Not available.			
General	No known significant effects	or critical hazards.	
Carcinogenicity	No known significant effects		
Mutagenicity	No known significant effects	or critical hazards.	
Teratogenicity	No known significant effects	or critical hazards.	
Developmental effects	No known significant effects	or critical hazards.	
Fertility effects	No known significant effects	or critical hazards.	
Numerical measures of toxicity			
Acute toxicity estimates			
N/A			
<u> </u>	<b>e</b>		
Section 12. Ecological in	formation		
<u>Toxicity</u> Not available.			
Persistence and degradability Product/ingredient name trometamol	Aquatic half-life	Photolysis	<b>Biodegradability</b> Readily
Bioaccumulative potential Not available.			readily
<u>Mobility in soil</u> Soil/water partition coefficient (K	Not available.		
oc)			

Other adverse effects No known significant effects or critical hazards.



### Section 13. Disposal considerations

## Section 14. Transport information

Product is not regulated as dangerous goods for transport.

## Section 15. Regulatory information

U.S. Federal regulations

#### TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Water Act (CWA) 311: Hydrogen chloride

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Not listed
Clean Air Act Section 602 Class I Substances	Not listed
Clean Air Act Section 602 Class II Substances	Not listed
DEA List I Chemicals (Precursor Chemicals)	Not listed
DEA List II Chemicals (Essential Chemicals)	Not listed

#### SARA 302/304

**Composition/information on ingredients** 

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(Ibs)	(gallons)
Hydrochloric acid	0.5	Yes.	500	50.8	5000	508.2

# SARA 304 RQ

<u>SARA</u>	311	<u>/312</u>
		-

## Classification Not applicable.

Composition/information o	<u>n ingredients</u>
Name	%

Name	%	Classification
trometamol	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
•···		

1000000 lbs / 454000 kg

## State regulations

Massachusetts	None of the components are listed.
New York	None of the components are listed.
New Jersey	None of the components are listed.
Pennsylvania	None of the components are listed.
New Jersey	None of the components are liste

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

# Stockholm Convention on Persistent Organic Pollutants

Not listed.

# Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

#### Inventory list

United States	Not determined.
Europe	Not determined.
Canada inventory	Not determined.

#### Section 16. Other information

#### National Fire Protection Association (U.S.A.)



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#### Procedure used to derive the classification

Not classified.HistoryDate of printing4/30/2020Date of issue/Date of revision9/30/2019Date of previous issue1/31/2017Version5Key to abbreviationsATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United NationsReferencesNot available.	Classi	fication Justification
Date of printing       4/30/2020         Date of issue/Date of revision       9/30/2019         Date of previous issue       1/31/2017         Version       5         sds_author@cytiva.com         Key to abbreviations       ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations	Not classified.	
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Indicates information that has changed from previously issued version.

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