

SAFETY DATA SHEET

United States

Section 1. Identification Product name

Sample Buffer; part of 'SDS-PAGE Clean-Up Kit, 50 samples'

Catalogue Number

80648470

Other means of identification No Product type Lic

Not available. Liquid.

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

Identified uses

Analytical chemistry.

Laboratory chemicals

Scientific research and development

Industrial applications: Analytical chemistry. Laboratory use. Scientific research and development.

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 INFOTRAC - 24 Hour number: 1-800-535-5053 Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

Section 2. Hazards identification

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 hazards to the aquatic environment: 5%
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

Mixture		
Not available.		
Not applicable.		
	%	CAS number
	<5	151-21-3
	<5	77-86-1
	Not available.	Not available. Not applicable. % <5

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 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 ai	d measures
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check
Inhalation	for and remove any contact lenses. Get medical attention if irritation occurs. 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. 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/effect	ts, 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. No specific treatment.
Specific treatments	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.
See toxicological information (S	ection 11)
Section 5. Fire-fighting n	neasures
Extinguishing media	
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 sulfur oxides metal oxide/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.

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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 conta	inment 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

Occupational exposure limits sodium dodecyl sulphate trometamol	None. None.
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.

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Section 9. Physical and chemical properties

Appearance							
Physical state	Liquid.						
Color	Blue.						
Odor	Odorless.						
Odor threshold	Not available.						
pH	Not available.						
Melting point/freezing point	Not available.						
Boiling point, initial boiling	Not available.						
point, and boiling range	N I (11 11						
Flash point	Not applicable.						
Burning time	Not applicable.						
Burning rate	Not applicable.						
Evaporation rate	Not available.						
Flammability	Not available.						
Lower and upper explosive (flammable) limits	Not available.						
Vapor pressure	Not available.						
		Va	por Pressur	re at 20°C	Vap	or pressu	re at 50°C
	Ingredient name water	mm Hg 23.8	kPa 3.2	Method	mm Hg	kPa	Method
Relative vapor density	Not available.						
Relative density	Not available.						
Solubility(ies)	Madia						
	Media		Result				
	cold water hot water		asily soluble asily soluble				
Solubility in water	Not available.						
Miscible with water	Yes.						
Partition coefficient: n-octand							
water							
Auto-ignition temperature	Not available.						
	Ingredient name		°C	°F	Met	thod	
	sodium dodecyl sulphate		310.5	590.9	VDI	2263	
Decomposition temperature	Not available.						
SADT	Not available.						
Viscosity	Not available.						
Flow time (ISO 2431)	Not available.						
Particle characteristics							
Median particle size	Not applicable.						
Section 10. Stability a	nd reactivity						
Reactivity	No specific test data	related to ı	reactivity ava	ilable for this pro	duct or its in	gredients.	
Chemical stability	The product is stable		,	·		-	
Possibility of hazardous	Under normal condition		age and use.	, hazardous read	tions will not	occur.	
reactions			5				
Conditions to avoid	No specific data.						
Incompatible materials	No specific data.						
Hazardous decomposition	Under normal condition	ons of stor	age and use	, hazardous dec	omposition p	roducts sho	uld not be
products	produced.						



Section 11. Toxicological information

Information on toxicological effect	cts			
Acute toxicity Product/ingredient name sodium dodecyl sulphate	Result LD50 Oral	Species Rat	Dose 1288 mg/kg	Exposure -
Irritation/Corrosion Not available.				
<u>Sensitization</u> Not available.				
<u>Mutagenicity</u> Not available.				
<u>Carcinogenicity</u> Not available.				
Reproductive toxicity Not available.				
<u>Teratogenicity</u> Not available.				
<u>Specific target organ toxicity (s</u> Not available.	<u>ingle exposure)</u>			
<u>Specific target organ toxicity (re</u> Not available.	epeated exposure)			
<u>Aspiration hazard</u> Not available.				
Information on the likely routes of exposure	Routes of entry anticipated: Oral, Derm	al, Inhalation.		
Potential acute health effects				
Eye contact	No known significant effects or critical h	nazards.		
Inhalation	No known significant effects or critical h	nazards.		
Skin contact	No known significant effects or critical h	nazards.		
Ingestion	No known significant effects or critical h	nazards.		
Symptoms related to the physica	I, chemical and toxicological characte	<u>ristics</u>		
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	l long term exposi	ire	
<u>Short term exposure</u>				
Potential immediate effects	Not available.			
Potential delayed effects	Not available.			
<u>Long term exposure</u>				
Potential immediate effects	Not available.			
Potential delayed effects	Not available.			
Potential chronic health effects Not available.				
General	No known significant effects or critical h	nazards.		
Carcinogenicity	No known significant effects or critical h			
Mutagenicity	No known significant effects or critical h			
Reproductive toxicity	No known significant effects or critical h	nazards.		
Numerical measures of toxicity				
Acute toxicity estimates				



					00010110
Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Sample Buffer ; part of 'SDS-PAGE Clean-Up Kit, 50 samples'	27399.3	N/A	N/A	N/A	N/A
sodium dodecyl sulphate	1288	N/A	N/A	N/A	N/A

Section 12. Ecological information

Product/ingredient name	Result		Species		Exposur
sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine Acute LC50 900 µg/l Marine Acute LC50 1400 µg/l Fresh Acute LC50 590 µg/l Fresh w Chronic NOEC 1.25 mg/l Ma Chronic NOEC 1 mg/l Fresh Chronic NOEC 3.2 mg/l Fres Chronic NOEC >1357 µg/l Fr	water water vater rine water water h water	Algae - Skeletonem Crustaceans - Arter Daphnia - Daphnia Fish - Cirrhinus mri Algae - Ulva fasciat Crustaceans - Pseu Neonate Daphnia - Daphnia Fish - Pimephales p	nia salina - Adult pulex - Neonate gala - Larvae a - Zoea idosida ramosa - magna - Neonate	96 hours 48 hours 96 hours 96 hours 21 days 21 days 42 days
Persistence and degradability					12 dayo
Product/ingredient name	Aquatic half-life	Photol	ysis	Biodegradabil	ity
sodium dodecyl sulphate trometamol	-		28 day(s)	Readily Readily	
Bioaccumulative potential					
Product/ingredient name	LogPow	BCF		Potential	
sodium dodecyl sulphate	-2.03	-		low	
Mobility in soil Soil/water partition coefficient (K ∞)	Not available.				
Other adverse effects	No known significant effects of	or critical haza	rds.		

Disposal methodsThe generation of waste should be avoided or minimized wherever possible. Disposal of this
product, solutions and any by-products should at all times comply with the requirements of
environmental protection and waste disposal legislation and any regional local authority
requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal
contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the
requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration
or landfill should only be considered when recycling is not feasible. This material and its container
must be disposed of in a safe way. Empty containers or liners may retain some product residues.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.RCRA classificationNot classified

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 Air Act Section 112(I (HAPs)	o) Hazardous Air Pollutants	Not listed			
Clean Air Act Section 602 C	lass I Substances	Not listed			
Clean Air Act Section 602 C	lass II Substances	Not listed			
DEA List I Chemicals (Prec	ursor Chemicals)	Not listed			
DEA List II Chemicals (Esse	ential Chemicals)	Not listed			
SARA 302/304					
Composition/information	on ingredients				
No products were found.					
SARA 304 RQ	Not applicable.				
SARA 311/312					
Classification	Not applicable.				
Composition/information on ingredients					
Name	%	Classification			



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Sample Buffer; part of 'SDS-PAGE Clean-Up Kit, 50 samples'

	-	
sodium dodecyl sulphate	<5	FLAMMABLE SOLIDS - Category 2
		ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
trometamol	<5	SKIN IRRITATION - Category 2
Otata na mulatia na		EYE IRRITATION - Category 2A
State regulations	N 64	an and a set Bada d
Massachusetts	None of the comp	
New York	None of the comp	
New Jersey	None of the comp	
Pennsylvania	None of the comp	ionents are listed.
California Prop. 65		
This product does not requir	e a Safe Harbor wa	rning under California Prop. 65.
International regulations		
Chemical Weapon Convention	<u>List Schedules I, II</u>	& III Chemicals
Not listed.		
Montreal Protocol		
Not listed.		
Stockholm Convention on Pers	istent Organic Pol	llutants
Not listed.		
Not listed.		
Rotterdam Convention on Prior	r Informed Consen	<u>t (PIC)</u>
Not listed.		
UNECE Aarhus Protocol on PO	Ps and Heavy Met	als
Not listed.	i o unu neuvy met	
Not listed.		
Inventory list		
Inventory list United States	All components a	re active or exempted.
	•	re active or exempted. re listed or exempted.
United States Canada inventory	All components a	
United States Canada inventory Section 16. Other inform	All components an ation	
United States Canada inventory	All components an ation	re listed or exempted.
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Article Number :

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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