SAFETY DATA SHEET

ADVIA® Centaur Probe Wash 4

SDS no.:

04750940

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: ADVIA® Centaur Probe Wash 4
Product code	: 04750940, 10321290
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
Identified uses	Diagnostic agents.
Restrictions on use	For professional users only.
Supplier	: Siemens Healthcare Diagnostics Limited Park View, Watchmoor Park, Camberley, Surrey, GU15 3YL United Kingdom
e-mail address of person responsible for this SDS	Phone: +44 (0) 345 600 1955 : dx.msds.healthcare@siemens-healthineers.com

1.4 Emergency telephone number

CHEMTREC: +44 20 3807 3798

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Met. Corr. 1, H290 Skin Irrit. 2, H315 Eye Irrit. 2, H319

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word	: Warning
Hazard statements	H290 - May be corrosive to metals. H315 - Causes skin irritation.
	H319 - Causes serious eye irritation.

Precautionary statements

Prevention : P234 - Keep only in original container.	
P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection	
Response: P337 + P313 - If eye irritation persists: Get medical advice/attention. P390 - Absorb spillage to prevent material damage.	
Storage : Not applicable.	
Disposal : P501 - Dispose of contents and container in accordance with all local, regional national regulations.	and
Supplemental label : Not applicable. elements	
Annex XVII - Restrictions : Not applicable. on the manufacture,	
2.3 Other hazards	
Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT of for PBT or vPvB according vPvB. to Regulation (EC) No. vPvB. 1907/2006, Annex XIII vPvB.	а
Other hazards which do : None known. not result in classification	
Additional information : Not available.	
Not available.	

SECTION 3: Composition/information on ingredients

: Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
sodium hydroxide	EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≤3	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of 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. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4: First aid measures		
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

4.2 Most important symptoms and effects, both acute and delayed

<u>Over-exposure signs/</u>	<u>symptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large
	quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Decomposition products may include the following materials: metal oxide/oxides
5.3 Advice for firefighters	
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

6.1 Personal precautions, pro	tective 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised 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".
6.2 Environmental precautions	: Avoid dispersal of spilt 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).
6.3 Methods and material 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. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach the release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe ha	andling
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
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.

7.2 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. Store in corrosive resistant container with a resistant inner liner. Separate from acids. Keep away from metals. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.

Date of issue/Date of revision

SECTION 7: Handling and storage

Industrial sector specific : Not available. solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name		Exposure limit values		
sodium hydroxide		EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 2 mg/m ³ 15 minutes.		
Recommended monitoring procedures	atmosphere or la of the ventilatior protective equip standards. Refe	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness in or other control measures and/or the necessity to use respiratory oment. Reference should be made to appropriate monitoring erence to national guidance documents for methods for the f hazardous substances will also be required.		

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
sodium hydroxide	DNEL DNEL	Long term Inhalation Long term Inhalation	1 mg/m³ 1 mg/m³	General population Workers	Local Local

PNECs

No PNECs available

8

.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	sures
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: chemical splash goggles.
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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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.

Date of issue/Date of revision

SECTION 8: Exposure controls/personal protection

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.
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.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

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<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Colourless.
Odour	: Odourless.
Odour threshold	: Not relevant/applicable due to nature of the product.
Melting point/freezing point	: Not relevant/applicable due to nature of the product.
Softening point	: Not relevant/applicable due to nature of the product.
Sublimation temperature	: Not relevant/applicable due to nature of the product.
Initial boiling point and	: Not available.
boiling range	
Flammability (solid, gas)	: Not relevant/applicable due to nature of the product.
Upper/lower flammability or	: Not available.
explosive limits	
Flash point	: Not available.
Decomposition temperature	: Not relevant/applicable due to nature of the product.
рН	: 13 [Conc. (% w/w): 1%]
Viscosity	: Not available.
Solubility(ies)	:
Not available.	
Solubility in water	: Not relevant/applicable due to nature of the product.
Miscible with water	: Not relevant/applicable due to nature of the product.
water	: Not relevant/applicable due to nature of the product.

2

Vapour pressure

	Va	pour Pres	sure at 20°C	Va	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
water	23.8	3.2						
Evaporation rate	: Not	relevant/ap	plicable due to n	ature of the prod	uct.			
Relative density	: 1							
Vapour density	: Not	available.						
Explosive properties	: Not	available.						
Oxidising properties	: Not	available.						
Particle characteristics								
Median particle size	: Not	applicable.						
Fire point	: Not	available.						
Burning time	: Not	relevant/ap	plicable due to n	ature of the prod	uct.			
Date of issue/Date of revision	: 12/13/2	022 Date o	of previous issue	: No previous v	alidation	Version : 1	6/13	

SECTION 9: Physical and chemical properties

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Fundamental burning velocity	: Not relevant/applicable due to nature of the product.
Burning rate	: Not relevant/applicable due to nature of the product.
SADT	: Not relevant/applicable due to nature of the product.
SAPT	: Not relevant/applicable due to nature of the product.
Heat of reaction	: Not relevant/applicable due to nature of the product.
Heat of combustion	: Not relevant/applicable due to nature of the product.
Flow time (ISO 2431)	: Not relevant/applicable due to nature of the product.
Molecular weight	: Not relevant/applicable due to nature of the product.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: acids metals
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Conclusion/Summary : Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
sodium hydroxide	Eyes - Mild irritant	Rabbit	-	400 ug	-
-	Eyes - Severe irritant	Monkey	-	24 hours 1 %	-
	Eyes - Severe irritant	Rabbit	-	1 %	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 ug	-
	Skin - Mild irritant	Human	-	24 hours 2 %	-
	Skin - Severe irritant	Rabbit	-	24 hours 500	-
				mg	
Conclusion/Summary	: Not available.				
<u>Sensitisation</u>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
<u>Carcinogenicity</u>					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
ate of issue/Date of revision	: 12/13/2022 Date of previou	is issue : No	previous val	idation Versio	n : 1 7/13

SECTION 11: TOXICOL	O	gical information			
Conclusion/Summary	:	Not available.			
Teratogenicity					
Conclusion/Summary	nary : Not available.				
Specific target organ toxicity	<u>y (</u>	<u>single exposure)</u>			
Not available.					
Specific target organ toxicity	<u>v (</u>	repeated exposure)			
Not available.					
Aspiration hazard					
Not available.					
Information on likely routes	:	Not available.			
of exposure	•				
Potential acute health effects					
Eye contact	:	Causes serious eye irritation.			
Inhalation	:	No known significant effects or critical hazards.			
Skin contact	:	Causes skin irritation.			
Ingestion	:	No known significant effects or critical hazards.			
Symptoms related to the phys	sic	cal, chemical and toxicological characteristics			
Eye contact	:	Adverse symptoms may include the following:			
		pain or irritation watering			
		redness			
Inhalation	:	No specific data.			
Skin contact	:	Adverse symptoms may include the following:			
		irritation redness			
Ingestion	:	No specific data.			
C					
Delayed and immediate effect	s	as well as chronic effects from short and long-term exposure			
<u>Short term exposure</u>					
Potential immediate	:	Not available.			
effects Potential delayed effects		Not available.			
Long term exposure	•				
Potential immediate		Not available.			
effects	•				
Potential delayed effects	:	Not available.			
Potential chronic health effe	ct	<u>s</u>			
Not available.					
Conclusion/Summary	:	Not available.			
General	:	No known significant effects or critical hazards.			
Carcinogenicity	:	No known significant effects or critical hazards.			
Mutagenicity	:	No known significant effects or critical hazards.			
Reproductive toxicity	:	No known significant effects or critical hazards.			
Other information	:	Not available.			

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
sodium hydroxide	Acute EC50 40.38 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 125 ppm Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment metho	ods
Product	
Methods of disposal	: The generation of waste should be avoided or minimised 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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID

14.1 UN number	UN1824
14.2 UN proper shipping name	Sodium hydroxide solution

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 ADVIA® Centaur Probe Wash 4

SECTION 14: Transport information

	ransport information
14.3 Transport hazard class(es)	8
	8
14.4 Packing group	III
14.5 Environmental hazards	No.
Additional information	-
ADN	
14.1 UN number	UN1824
14.2 UN proper shipping name	Sodium hydroxide solution
14.3 Transport hazard class(es)	8
14.4 Packing group	Ш
14.5 Environmental hazards	No.
Additional information	-
<u>IMDG</u>	
14.1 UN number	UN1824
14.2 UN proper shipping name	SODIUM HYDROXIDE, SOLUTION
14.3 Transport hazard class(es)	8
	8
14.4 Packing group	III
14.5 Environmental hazards	No.
Additional information	-
IATA	11114924
14.1 UN number	UN1824
14.2 UN proper shipping name	SODIUM HYDROXIDE, SOLUTION

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 ADVIA® Centaur Probe Wash 4

SECTION 14: Transport information

	•
14.3 Transport	8
hazard class(es)	
14.4 Packing group	III
14.5	No.
Environmental hazards	
Additional information	-
14.6 Special precauti user	ions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bul according to IMO instruments	k : Not applicable.

SECTION 15: Regulatory information

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

UK (GB) /REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Not listed (integrated pollution prevention and control) -Air

SECTION 15: Regulatory information

Industrial emissions : Not listed (integrated pollution prevention and control) - Water			
International regulations			
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.			
5.2 Chemical safety : Not applicable. ssessment			

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGC = Segregation Group
	SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Met. Corr. 1, H290 Skin Irrit. 2, H315	On basis of test data Expert judgment
Eye Irrit. 2, H319	Expert judgment

Full text of abbreviated H statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Full text of classifications

Date of printing	: 12/13/2022
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Met. Corr. 1	CORROSIVE TO METALS - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

Date of printing

SECTION 16: Other information

Date of issue/ Date of revision	: 12/13/2022
Date of previous issue	: No previous validation
Version	: 1
Notice to reader	

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.