

# SAFETY DATA SHEET

ADVIA® Centaur CEA, 500 Test

SDS no.:

09788458

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

### 1.1 Product identifier

**Product name** : ADVIA® Centaur CEA, 500 Test  
**Product code** : 09788458, 110762, 10309978, 118808, 10333162

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

**Identified uses** ADVIA® Centaur CEA ReadyPack Lite Reagent Diagnostic agents.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Diagnostic agents.

**Restrictions on use** For professional users only.

**Supplier** : Siemens Healthcare Diagnostics Limited  
 Park View,  
 Watchmoor Park,  
 Camberley,  
 Surrey,  
 GU15 3YL  
 United Kingdom

Phone: +44 (0) 345 600 1955

**e-mail address of person responsible for this SDS** : 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** : ADVIA® Centaur CEA ReadyPack Lite Reagent Mixture  
 ADVIA® Centaur CEA ReadyPack Solid Phase Mixture

#### Classification according to UK CLP/GHS

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.  
 See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** : ADVIA® Centaur CEA ReadyPack Lite Reagent No signal word.  
 ADVIA® Centaur CEA ReadyPack Solid Phase No signal word.

**Hazard statements** : ADVIA® Centaur CEA ReadyPack Lite Reagent No known significant effects or critical hazards.  
 ADVIA® Centaur CEA ReadyPack Solid Phase No known significant effects or critical hazards.

#### Precautionary statements

ADVIA® Centaur CEA, 500 Test

## SECTION 2: Hazards identification

<b>Prevention</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not applicable.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not applicable.
<b>Response</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not applicable.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not applicable.
<b>Storage</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not applicable.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not applicable.
<b>Disposal</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not applicable.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not applicable.
<b>Supplemental label elements</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not applicable.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Safety data sheet available on request.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not applicable.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not applicable.

### 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	None known.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	None known.
<b>Additional information</b>	: Not available.	
		Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Mixture
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Mixture

Product/ingredient name	Identifiers	%	Classification	Type
<b>ADVIA® Centaur CEA ReadyPack Solid Phase</b> Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	CAS: 9002-93-1	≤1.2	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411  <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]

ADVIA® Centaur CEA, 500 Test

## SECTION 3: Composition/information on ingredients

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance of equivalent concern

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	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.
	ADVIA® Centaur CEA ReadyPack Solid Phase	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.
<b>Inhalation</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	ADVIA® Centaur CEA ReadyPack Solid Phase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ADVIA® Centaur CEA ReadyPack Solid Phase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	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.
	ADVIA® Centaur CEA ReadyPack Solid Phase	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.
<b>Protection of first-aiders</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No action shall be taken involving any personal risk or without suitable training.
	ADVIA® Centaur CEA ReadyPack Solid Phase	No action shall be taken involving any personal risk or without suitable training.

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

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No specific data.
	ADVIA® Centaur CEA ReadyPack Solid Phase	No specific data.

## SECTION 4: First aid measures

<b>Inhalation</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No specific data.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No specific data.
<b>Skin contact</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No specific data.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No specific data.
<b>Ingestion</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No specific data.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No specific data.

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

<b>Notes to physician</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No specific treatment.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No specific treatment.
	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not available.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not available.

## 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 from 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** : No specific data.

### 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, 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 spilt material. 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. 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.

- 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 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.

### 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. 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.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### 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 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.

**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

#### Appearance

ADVIA® Centaur CEA, 500 Test

## SECTION 9: Physical and chemical properties

<b>Physical state</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Liquid.
	ADVIA® Centaur CEA ReadyPack Solid Phase	Liquid.
<b>Colour</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Colourless.
	ADVIA® Centaur CEA ReadyPack Solid Phase	Colourless to light yellow.
<b>Odour</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Odourless.
	ADVIA® Centaur CEA ReadyPack Solid Phase	Odourless.
<b>Odour threshold</b>	: Not relevant/applicable due to nature of the product.	
<b>Melting point/freezing point</b>	: Not relevant/applicable due to nature of the product.	
<b>Softening point</b>	: Not relevant/applicable due to nature of the product.	
<b>Sublimation temperature</b>	: Not relevant/applicable due to nature of the product.	
<b>Initial boiling point and boiling range</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CEA ReadyPack Solid Phase	Not available.
<b>Flammability (solid, gas)</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not relevant/applicable due to nature of the product.
	ADVIA® Centaur CEA ReadyPack Solid Phase	Not relevant/applicable due to nature of the product.
<b>Upper/lower flammability or explosive limits</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CEA ReadyPack Solid Phase	Not available.
<b>Flash point</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	[Product does not sustain combustion.]
	ADVIA® Centaur CEA ReadyPack Solid Phase	[Product does not sustain combustion.]

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
ADVIA® Centaur CEA ReadyPack Solid Phase  Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	>109.85	>229.7				

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
ADVIA® Centaur CEA ReadyPack Lite Reagent sodium azide	309	588.2	EU A.16
ADVIA® Centaur CEA ReadyPack Solid Phase sodium azide	309	588.2	EU A.16

**Decomposition temperature** : Not relevant/applicable due to nature of the product.

**pH** : ADVIA® Centaur CEA ReadyPack Lite Reagent 7.4  
ADVIA® Centaur CEA ReadyPack Solid Phase 7.4

**Viscosity** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

**Solubility(ies)** :

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## SECTION 9: Physical and chemical properties

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.

**Partition coefficient: n-octanol/ water** : Not relevant/applicable due to nature of the product.

**Vapour pressure** :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
ADVIA® Centaur CEA ReadyPack Lite Reagent water	23.8	3.2				
ADVIA® Centaur CEA ReadyPack Solid Phase water	23.8	3.2				

**Evaporation rate** : Not relevant/applicable due to nature of the product.

**Relative density** : ADVIA® Centaur CEA ReadyPack Lite Reagent 1  
ADVIA® Centaur CEA ReadyPack Solid Phase >1

**Density** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

**Vapour density** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

**Explosive properties** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

**Oxidising properties** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

### Particle characteristics

**Median particle size** : Not applicable.

### 9.2 Other information

**Fire point** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

**Burning time** : Not relevant/applicable due to nature of the product.

**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.



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## 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** : No specific data.

**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

Product/ingredient name	Result	Species	Dose	Exposure
<b>ADVIA® Centaur CEA ReadyPack Solid Phase</b> Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	LD50 Oral	Rat	1800 mg/kg	-

**Conclusion/Summary** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>ADVIA® Centaur CEA ReadyPack Lite Reagent</b> ADVIA® Centaur CEA ReadyPack Lite Reagent	27000	20000	N/A	N/A	N/A
<b>ADVIA® Centaur CEA ReadyPack Solid Phase</b> ADVIA® Centaur CEA ReadyPack Solid Phase Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	23478.3 1800	20000 N/A	N/A N/A	N/A N/A	N/A N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>ADVIA® Centaur CEA ReadyPack Solid Phase</b> Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Eyes - Moderate irritant	Rabbit	-	24 hours 10 uL	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-

#### Conclusion/Summary

**Skin** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

## SECTION 11: Toxicological information

**Eyes** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

**Respiratory** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

### Sensitisation

#### Conclusion/Summary

**Skin** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

**Respiratory** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

### Mutagenicity

#### Conclusion/Summary

: ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

### Carcinogenicity

#### Conclusion/Summary

: ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

### Reproductive toxicity

#### Conclusion/Summary

: ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

### Teratogenicity

#### Conclusion/Summary

: ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

### Potential acute health effects

**Eye contact** : ADVIA® Centaur CEA ReadyPack Lite Reagent No known significant effects or critical hazards.  
 ADVIA® Centaur CEA ReadyPack Solid Phase No known significant effects or critical hazards.

## SECTION 11: Toxicological information

<b>Inhalation</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No known significant effects or critical hazards.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No known significant effects or critical hazards.
<b>Skin contact</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No known significant effects or critical hazards.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No known significant effects or critical hazards.
<b>Ingestion</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No known significant effects or critical hazards.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No specific data.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No specific data.
<b>Inhalation</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No specific data.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No specific data.
<b>Skin contact</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No specific data.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No specific data.
<b>Ingestion</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	No specific data.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	No specific data.

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

#### Short term exposure

<b>Potential immediate effects</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not available.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not available.
<b>Potential delayed effects</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not available.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not available.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not available.
<b>Potential delayed effects</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not available.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not available.

#### Potential chronic health effects

Not available.

<b>Conclusion/Summary</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not available.
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not available.

## SECTION 11: Toxicological information

<b>General</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent ADVIA® Centaur CEA ReadyPack Solid Phase	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent ADVIA® Centaur CEA ReadyPack Solid Phase	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent ADVIA® Centaur CEA ReadyPack Solid Phase	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent ADVIA® Centaur CEA ReadyPack Solid Phase	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Interactive effects</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent ADVIA® Centaur CEA ReadyPack Solid Phase	Not available. Not available.
<b><u>Toxicokinetics</u></b>		
<b>Absorption</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent ADVIA® Centaur CEA ReadyPack Solid Phase	Not available. Not available.
<b>Distribution</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent ADVIA® Centaur CEA ReadyPack Solid Phase	Not available. Not available.
<b>Metabolism</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent ADVIA® Centaur CEA ReadyPack Solid Phase	Not available. Not available.
<b>Elimination</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent ADVIA® Centaur CEA ReadyPack Solid Phase	Not available. Not available.
<b>Other information</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent ADVIA® Centaur CEA ReadyPack Solid Phase	Not available. Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ADVIA® Centaur CEA ReadyPack Solid Phase Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours

## SECTION 12: Ecological information

**Conclusion/Summary** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase Not available.

**Mobility** : ADVIA® Centaur CEA ReadyPack Lite Reagent Not available.  
 ADVIA® Centaur CEA ReadyPack Solid Phase 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 methods

#### 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** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.  
 Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

#### 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. 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

<b>14.1 UN number</b>	ADVIA® Centaur CEA ReadyPack Lite	Not regulated.
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	Not regulated.
<b>14.2 UN proper shipping name</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.3 Transport hazard class(es)</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.4 Packing group</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.5 Environmental hazards</b>	ADVIA® Centaur CEA ReadyPack Lite	No.
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	No.
<b>Additional information</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-

### ADN

<b>14.1 UN number</b>	ADVIA® Centaur CEA ReadyPack Lite	Not regulated.
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	Not regulated.
<b>14.2 UN proper shipping name</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.3 Transport hazard class(es)</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.4 Packing group</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.5 Environmental hazards</b>	ADVIA® Centaur CEA ReadyPack Lite	No.
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	No.
<b>Additional information</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-

### IMDG

<b>14.1 UN number</b>	ADVIA® Centaur CEA ReadyPack Lite	Not regulated.
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	Not regulated.
<b>14.2 UN proper shipping name</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-

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## SECTION 14: Transport information

<b>14.3 Transport hazard class(es)</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.4 Packing group</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.5 Environmental hazards</b>	ADVIA® Centaur CEA ReadyPack Lite	No.
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	No.
<b>Additional information</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-

### IATA

<b>14.1 UN number</b>	ADVIA® Centaur CEA ReadyPack Lite	Not regulated.
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	Not regulated.
<b>14.2 UN proper shipping name</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.3 Transport hazard class(es)</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.4 Packing group</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-
<b>14.5 Environmental hazards</b>	ADVIA® Centaur CEA ReadyPack Lite	No.
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	No.
<b>Additional information</b>	ADVIA® Centaur CEA ReadyPack Lite	-
	Reagent	
	ADVIA® Centaur CEA ReadyPack Solid Phase	-

**14.6 Special precautions for user** : ADVIA® Centaur CEA ReadyPack Lite  
Reagent

**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.

ADVIA® Centaur CEA ReadyPack Solid Phase

**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 bulk according to IMO instruments** : 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**

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
<b>ADVIA® Centaur CEA ReadyPack Solid Phase</b> Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Listed	42	1/1/2021

**Substances of very high concern**

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
<b>ADVIA® Centaur CEA ReadyPack Solid Phase</b> Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Candidate	-	12/19/2012

**Ozone depleting substances**

Not listed.

**Prior Informed Consent (PIC)**

Not listed.

**Persistent Organic Pollutants**

Not listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not applicable.
: ADVIA® Centaur CEA ReadyPack Solid Phase	Not applicable.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**EU regulations**

<b>Industrial emissions (integrated pollution prevention and control) - Air</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not listed
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not listed
<b>Industrial emissions (integrated pollution prevention and control) - Water</b>	: ADVIA® Centaur CEA ReadyPack Lite Reagent	Not listed
	: ADVIA® Centaur CEA ReadyPack Solid Phase	Not listed

**International regulations****Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.



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## SECTION 15: Regulatory information

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

**15.2 Chemical safety assessment** : Not applicable.

## 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
- SGG = Segregation Group
- vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Not classified.

### Full text of abbreviated H statements

**ADVIA®  
Centaur CEA  
ReadyPack  
Solid Phase**

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

### Full text of classifications

**ADVIA® Centaur  
CEA ReadyPack  
Solid Phase**

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

**Date of printing** : 12/13/2022  
**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 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.

ADVIA® Centaur CEA, 500 Test