

SAFETY DATA SHEET

ADVIA® Centaur aTPO, 500 Test

SDS no.:

05481536

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

1.1 Product identifier

Product name : ADVIA® Centaur aTPO, 500 Test
Product code : 125746, 05481536, 10310396, 10630887

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

Identified uses ADVIA® Centaur aTPO ReadyPack Lite Reagent Diagnostic agents.
 ADVIA® Centaur aTPO 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 aTPO ReadyPack Lite Reagent Mixture
 ADVIA® Centaur aTPO 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 aTPO ReadyPack Lite Reagent No signal word.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No signal word.

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

Precautionary statements

ADVIA® Centaur aTPO, 500 Test

SECTION 2: Hazards identification

Prevention	: ADVIA® Centaur aTPO ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur aTPO ReadyPack Solid Phase	Not applicable.
Response	: ADVIA® Centaur aTPO ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur aTPO ReadyPack Solid Phase	Not applicable.
Storage	: ADVIA® Centaur aTPO ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur aTPO ReadyPack Solid Phase	Not applicable.
Disposal	: ADVIA® Centaur aTPO ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur aTPO ReadyPack Solid Phase	Not applicable.
Supplemental label elements	: ADVIA® Centaur aTPO ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur aTPO ReadyPack Solid Phase	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: ADVIA® Centaur aTPO ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur aTPO ReadyPack Solid Phase	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: ADVIA® Centaur aTPO ReadyPack Lite Reagent	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	ADVIA® Centaur aTPO ReadyPack Solid Phase	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: ADVIA® Centaur aTPO ReadyPack Lite Reagent	None known.
	ADVIA® Centaur aTPO ReadyPack Solid Phase	None known.
Additional information	: Potentially biohazardous material.	
		Not available.

SECTION 3: Composition/information on ingredients

3.1 Substances	: ADVIA® Centaur aTPO ReadyPack Lite Reagent	Mixture
	ADVIA® Centaur aTPO ReadyPack Solid Phase	Mixture

Product/ingredient name	Identifiers	%	Classification	Type
ADVIA® Centaur aTPO ReadyPack Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	CAS: 9002-93-1	<1	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1] [2]
ADVIA® Centaur aTPO ReadyPack Solid Phase Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-	CAS: 9002-93-1	<1	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1] [2]

ADVIA® Centaur aTPO, 500 Test

SECTION 3: Composition/information on ingredients

hydroxy-			Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.
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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

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

SECTION 4: First aid measures

Over-exposure signs/symptoms

Eye contact	: ADVIA® Centaur aTPO ReadyPack Lite Reagent ADVIA® Centaur aTPO ReadyPack Solid Phase	No specific data.
Inhalation	: ADVIA® Centaur aTPO ReadyPack Lite Reagent ADVIA® Centaur aTPO ReadyPack Solid Phase	No specific data.
Skin contact	: ADVIA® Centaur aTPO ReadyPack Lite Reagent ADVIA® Centaur aTPO ReadyPack Solid Phase	No specific data.
Ingestion	: ADVIA® Centaur aTPO ReadyPack Lite Reagent ADVIA® Centaur aTPO ReadyPack Solid Phase	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: ADVIA® Centaur aTPO ReadyPack Lite Reagent ADVIA® Centaur aTPO ReadyPack Solid Phase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: ADVIA® Centaur aTPO ReadyPack Lite Reagent ADVIA® Centaur aTPO ReadyPack Solid Phase ADVIA® Centaur aTPO ReadyPack Lite Reagent ADVIA® Centaur aTPO ReadyPack Solid Phase	No specific treatment. No specific treatment. Not available. 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	: Decomposition products may include the following materials: halogenated compounds 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, 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 aTPO, 500 Test

SECTION 9: Physical and chemical properties

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

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
ADVIA® Centaur aTPO ReadyPack Lite Reagent ethanol	9.7	49.5	Abel-Pensky	17.778	64	
ADVIA® Centaur aTPO ReadyPack Solid Phase ethanol	9.7	49.5	Abel-Pensky	17.778	64	

Auto-ignition temperature :

Ingredient name	°C	°F	Method
ADVIA® Centaur aTPO ReadyPack Lite Reagent ethanol	455	851	DIN 51794
ADVIA® Centaur aTPO ReadyPack Solid Phase ethanol	455	851	DIN 51794

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

pH : ADVIA® Centaur aTPO ReadyPack Lite Reagent 6.8
 ADVIA® Centaur aTPO ReadyPack Solid Phase 6.8

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SECTION 9: Physical and chemical properties

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

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 aTPO ReadyPack Lite Reagent ethanol	42.95	5.7				
ADVIA® Centaur aTPO ReadyPack Solid Phase ethanol	42.95	5.7				

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

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

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

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

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

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

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

Fire point : ADVIA® Centaur aTPO ReadyPack Lite Reagent Not available.
 ADVIA® Centaur aTPO 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.

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SECTION 9: Physical and chemical properties

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	: 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
ADVIA® Centaur aTPO ReadyPack Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	LD50 Oral	Rat	1800 mg/kg	-
ADVIA® Centaur aTPO ReadyPack Solid Phase 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 aTPO ReadyPack Lite Reagent Not available.
ADVIA® Centaur aTPO 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)
ADVIA® Centaur aTPO ReadyPack Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	1800	N/A	N/A	N/A	N/A
ADVIA® Centaur aTPO ReadyPack Solid Phase Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	1800	N/A	N/A	N/A	N/A

Irritation/Corrosion

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
ADVIA® Centaur aTPO ReadyPack Lite Reagent 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	-
ADVIA® Centaur aTPO ReadyPack Solid Phase 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 aTPO ReadyPack Lite Reagent Not available.
ADVIA® Centaur aTPO ReadyPack Solid Phase Not available.

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

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

Sensitisation

Conclusion/Summary

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

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

Mutagenicity

Conclusion/Summary

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

Carcinogenicity

Conclusion/Summary

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

Reproductive toxicity

Conclusion/Summary

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

Teratogenicity

SECTION 11: Toxicological information

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

Potential acute health effects

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

Inhalation : ADVIA® Centaur aTPO ReadyPack Lite Reagent No known significant effects or critical hazards.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No known significant effects or critical hazards.

Skin contact : ADVIA® Centaur aTPO ReadyPack Lite Reagent No known significant effects or critical hazards.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No known significant effects or critical hazards.

Ingestion : ADVIA® Centaur aTPO ReadyPack Lite Reagent No known significant effects or critical hazards.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : ADVIA® Centaur aTPO ReadyPack Lite Reagent No specific data.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No specific data.

Inhalation : ADVIA® Centaur aTPO ReadyPack Lite Reagent No specific data.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No specific data.

Skin contact : ADVIA® Centaur aTPO ReadyPack Lite Reagent No specific data.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No specific data.

Ingestion : ADVIA® Centaur aTPO ReadyPack Lite Reagent No specific data.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No specific data.

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

Short term exposure

SECTION 11: Toxicological information

Potential immediate effects : ADVIA® Centaur aTPO ReadyPack Lite Reagent Not available.
 ADVIA® Centaur aTPO ReadyPack Solid Phase Not available.

Potential delayed effects : ADVIA® Centaur aTPO ReadyPack Lite Reagent Not available.
 ADVIA® Centaur aTPO ReadyPack Solid Phase Not available.

Long term exposure

Potential immediate effects : ADVIA® Centaur aTPO ReadyPack Lite Reagent Not available.
 ADVIA® Centaur aTPO ReadyPack Solid Phase Not available.

Potential delayed effects : ADVIA® Centaur aTPO ReadyPack Lite Reagent Not available.
 ADVIA® Centaur aTPO ReadyPack Solid Phase Not available.

Potential chronic health effects

Not available.

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

General : ADVIA® Centaur aTPO ReadyPack Lite Reagent No known significant effects or critical hazards.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No known significant effects or critical hazards.

Carcinogenicity : ADVIA® Centaur aTPO ReadyPack Lite Reagent No known significant effects or critical hazards.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No known significant effects or critical hazards.

Mutagenicity : ADVIA® Centaur aTPO ReadyPack Lite Reagent No known significant effects or critical hazards.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No known significant effects or critical hazards.

Reproductive toxicity : ADVIA® Centaur aTPO ReadyPack Lite Reagent No known significant effects or critical hazards.
 ADVIA® Centaur aTPO ReadyPack Solid Phase No known significant effects or critical hazards.

Interactive effects : ADVIA® Centaur aTPO ReadyPack Lite Reagent Not available.
 ADVIA® Centaur aTPO ReadyPack Solid Phase Not available.

Toxicokinetics

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

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

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

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

Other information : ADVIA® Centaur aTPO ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur aTPO ReadyPack Solid Not available.
 Phase

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ADVIA® Centaur aTPO ReadyPack Lite Reagent 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
ADVIA® Centaur aTPO 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

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

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : ADVIA® Centaur aTPO ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur aTPO ReadyPack Solid Not available.
 Phase

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

12.5 Results of PBT and vPvB assessment

ADVIA® Centaur aTPO, 500 Test

SECTION 12: Ecological information

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.

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

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

ADN

14.1 UN number

ADVIA® Centaur aTPO, 500 Test

SECTION 14: Transport information

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

IMDG

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

IATA

ADVIA® Centaur aTPO, 500 Test

SECTION 14: Transport information

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

ADVIA® Centaur aTPO, 500 Test

SECTION 15: Regulatory information

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
ADVIA® Centaur aTPO ReadyPack Lite Reagent 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
ADVIA® Centaur aTPO ReadyPack Solid Phase 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
ADVIA® Centaur aTPO ReadyPack Lite Reagent 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
ADVIA® Centaur aTPO ReadyPack Solid Phase 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 aTPO ReadyPack Lite Reagent Not applicable.
ADVIA® Centaur aTPO ReadyPack Solid Phase Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : ADVIA® Centaur aTPO ReadyPack Lite Reagent Not listed
ADVIA® Centaur aTPO ReadyPack Solid Phase Not listed

ADVIA® Centaur aTPO, 500 Test

SECTION 15: Regulatory information

Industrial emissions (integrated pollution prevention and control) - Water : ADVIA® Centaur aTPO ReadyPack Lite Reagent Not listed
ADVIA® Centaur aTPO ReadyPack Solid Phase Not listed

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.

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 aTPO

ReadyPack

Lite Reagent

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

ADVIA®

Centaur aTPO

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 aTPO, 500 Test

SECTION 16: Other information

ADVIA® Centaur aTPO ReadyPack Lite Reagent

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

ADVIA® Centaur aTPO 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.