

SAFETY DATA SHEET

SIEMENS

ADVIA® Centaur CA19-9

**MSDS
no.**

10491244

Section 1. Identification

GHS product identifier	: ADVIA® Centaur CA19-9
Product code	: 10491244, 10491379
Other means of identification	: ADVIA® Centaur CA 19-9 ReadyPack Lite 123491-LR Reagent ADVIA® Centaur CA 19-9 ReadyPack Solid 123491-SP Phase CA 19-9 Calibrator 10491249, 10491250
Product type	: Liquid.

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

Not applicable.

Manufactured/supplied	: Siemens Healthcare Diagnostics Inc. 511 Benedict Avenue Tarrytown, NY 10591-5097 USA 1-877-229-3711 (800) 424-9300 (CHEMTREC) (24/365)
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Section 2. Hazards identification

OSHA/HCS status	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	: ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	: CA 19-9 Calibrator	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not classified.
	: ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not classified.
	: CA 19-9 Calibrator	Not classified.
Additional information	: Potentially biohazardous material.	

Section 2. Hazards identification

Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

GHS label elements

Signal word	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No signal word.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No signal word.
	CA 19-9 Calibrator	No signal word.
Hazard statements	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No known significant effects or critical hazards.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No known significant effects or critical hazards.
	CA 19-9 Calibrator	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not applicable.
	CA 19-9 Calibrator	Not applicable.
Response	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not applicable.
	CA 19-9 Calibrator	Not applicable.
Storage	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not applicable.
	CA 19-9 Calibrator	Not applicable.
Disposal	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not applicable.
	CA 19-9 Calibrator	Not applicable.
Supplemental label elements	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	None known.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	None known.
	CA 19-9 Calibrator	None known.
Hazards not otherwise classified	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	None known.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	None known.
	CA 19-9 Calibrator	None known.

Section 3. Composition/information on ingredients

Substance/mixture	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Mixture
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Mixture
	CA 19-9 Calibrator	Mixture

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent sodium azide Gentamicin, sulfate (salt)	0.09 0.05	26628-22-8 1405-41-0
ADVIA® Centaur CA 19-9 ReadyPack Solid Phase Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- sodium azide Gentamicin, sulfate (salt)	1.05 0.09 0.01	9002-93-1 26628-22-8 1405-41-0
CA 19-9 Calibrator sodium azide Gentamicin, sulfate (salt)	0.5 0.024	26628-22-8 1405-41-0

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

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: ADVIA® Centaur CA 19-9 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 CA 19-9 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.
	CA 19-9 Calibrator	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 CA 19-9 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 CA 19-9 ReadyPack Solid Phase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	CA 19-9 Calibrator	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 CA 19-9 ReadyPack Lite Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	CA 19-9 Calibrator	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

Ingestion	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	CA 19-9 Calibrator	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No known significant effects or critical hazards.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No known significant effects or critical hazards.
	CA 19-9 Calibrator	No known significant effects or critical hazards.
Inhalation	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No known significant effects or critical hazards.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No known significant effects or critical hazards.
	CA 19-9 Calibrator	No known significant effects or critical hazards.
Skin contact	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No known significant effects or critical hazards.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No known significant effects or critical hazards.
	CA 19-9 Calibrator	No known significant effects or critical hazards.
Ingestion	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No known significant effects or critical hazards.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No known significant effects or critical hazards.
	CA 19-9 Calibrator	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No specific data.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No specific data.
	CA 19-9 Calibrator	No specific data.

Section 4. First aid measures

Inhalation	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No specific data.
	: ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No specific data.
	: CA 19-9 Calibrator	No specific data.
Skin contact	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No specific data.
	: ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No specific data.
	: CA 19-9 Calibrator	No specific data.
Ingestion	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No specific data.
	: ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No specific data.
	: CA 19-9 Calibrator	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	: In case of fire, use water spray (fog), foam or dry chemical.
Unsuitable extinguishing media	: None known.

Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
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Hazardous thermal decomposition products	: No specific data.
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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.
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Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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Section 6. Accidental release measures

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent sodium azide	ACGIH TLV (United States, 3/2015). Notes: as hydrazoic acid vapor C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor ACGIH TLV (United States, 3/2015). C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: NaN₃ CEIL: 0.3 mg/m³, (NaN₃) NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: as HN₃ CEIL: 0.1 ppm, (as HN₃) OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as HN₃ CEIL: 0.1 ppm, (as HN₃) OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as NaN₃ CEIL: 0.3 mg/m³, (as NaN₃)
ADVIA® Centaur CA 19-9 ReadyPack Solid Phase sodium azide	ACGIH TLV (United States, 3/2015). Notes: as hydrazoic acid vapor C: 0.11 ppm, (as Hydrazoic acid vapor) Form:

Section 8. Exposure controls/personal protection

CA 19-9 Calibrator
sodium azide

as Hydrazoic acid vapor
ACGIH TLV (United States, 3/2015).
 C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide
NIOSH REL (United States, 10/2013).
Absorbed through skin. Notes: NaN3
 CEIL: 0.3 mg/m³, (NaN3)
NIOSH REL (United States, 10/2013).
Absorbed through skin. Notes: as HN3
 CEIL: 0.1 ppm, (as HN3)
OSHA PEL 1989 (United States, 3/1989).
Absorbed through skin. Notes: as HN3
 CEIL: 0.1 ppm, (as HN3)
OSHA PEL 1989 (United States, 3/1989).
Absorbed through skin. Notes: as NaN3
 CEIL: 0.3 mg/m³, (as NaN3)

ACGIH TLV (United States, 3/2015). Notes: as hydrazoic acid vapor
 C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor
ACGIH TLV (United States, 3/2015).
 C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide
NIOSH REL (United States, 10/2013).
Absorbed through skin. Notes: NaN3
 CEIL: 0.3 mg/m³, (NaN3)
NIOSH REL (United States, 10/2013).
Absorbed through skin. Notes: as HN3
 CEIL: 0.1 ppm, (as HN3)
OSHA PEL 1989 (United States, 3/1989).
Absorbed through skin. Notes: as HN3
 CEIL: 0.1 ppm, (as HN3)
OSHA PEL 1989 (United States, 3/1989).
Absorbed through skin. Notes: as NaN3
 CEIL: 0.3 mg/m³, (as NaN3)

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

- Physical state** : ADVIA® Centaur CA 19-9 ReadyPack Lite Liquid.
Reagent
ADVIA® Centaur CA 19-9 ReadyPack Solid Liquid.
Phase
CA 19-9 Calibrator Solid.
- Color** : ADVIA® Centaur CA 19-9 ReadyPack Lite Colorless.
Reagent
ADVIA® Centaur CA 19-9 ReadyPack Solid Colorless to light yellow.
Phase
CA 19-9 Calibrator Not available.
- Odor** : ADVIA® Centaur CA 19-9 ReadyPack Lite Odorless.
Reagent
ADVIA® Centaur CA 19-9 ReadyPack Solid Odorless.
Phase
CA 19-9 Calibrator Odorless.
- pH** : ADVIA® Centaur CA 19-9 ReadyPack Lite 7.6
Reagent
ADVIA® Centaur CA 19-9 ReadyPack Solid 7.6
Phase
CA 19-9 Calibrator Not applicable.
- Flash point** : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
Reagent
ADVIA® Centaur CA 19-9 ReadyPack Solid Not available.
Phase
CA 19-9 Calibrator Not available.
- Flammability (solid, gas)** : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
Reagent
ADVIA® Centaur CA 19-9 ReadyPack Solid Not available.
Phase
CA 19-9 Calibrator Not available.
- Relative density** : ADVIA® Centaur CA 19-9 ReadyPack Lite 1
Reagent
ADVIA® Centaur CA 19-9 ReadyPack Solid >1
Phase
CA 19-9 Calibrator 1
- Solubility in water** : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
Reagent
ADVIA® Centaur CA 19-9 ReadyPack Solid Not available.
Phase
CA 19-9 Calibrator Not available.
- Partition coefficient: n-octanol/water** : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
Reagent
ADVIA® Centaur CA 19-9 ReadyPack Solid Not available.
Phase
CA 19-9 Calibrator Not available.

Section 9. Physical and chemical properties

Auto-ignition temperature	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.
Viscosity	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.
Aerosol product		
Type of aerosol	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not applicable.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not applicable.
	CA 19-9 Calibrator	Not applicable.

Section 10. Stability and reactivity

Reactivity	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No specific test data related to reactivity available for this product or its ingredients.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No specific test data related to reactivity available for this product or its ingredients.
	CA 19-9 Calibrator	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	The product is stable.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	The product is stable.
	CA 19-9 Calibrator	The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	: No specific data.	
Incompatible materials	: No specific data.	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
	LD50 Oral	Rat	>5 g/kg	-
ADVIA® Centaur CA 19-9 ReadyPack Solid Phase sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-

Section 11. Toxicological information

Gentamicin, sulfate (salt)	LD50 Oral	Rat	>5 g/kg	-
CA 19-9 Calibrator				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
Gentamicin, sulfate (salt)	LD50 Oral	Rat	>5 g/kg	-

Conclusion/Summary : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ADVIA® Centaur CA 19-9 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 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-

Conclusion/Summary

Skin : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

Eyes : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

Respiratory : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

Sensitization

Not available.

Conclusion/Summary

Skin : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

Respiratory : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

Mutagenicity

Not available.

Conclusion/Summary : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

Section 11. Toxicological information

Carcinogenicity

Not available.

Conclusion/Summary	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.

Reproductive toxicity

Not available.

Conclusion/Summary	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.

Teratogenicity

Not available.

Conclusion/Summary	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.

Potential acute health effects

Eye contact	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No known significant effects or critical hazards.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No known significant effects or critical hazards.
	CA 19-9 Calibrator	No known significant effects or critical hazards.
Inhalation	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No known significant effects or critical hazards.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No known significant effects or critical hazards.
	CA 19-9 Calibrator	No known significant effects or critical hazards.
Skin contact	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No known significant effects or critical hazards.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No known significant effects or critical hazards.
	CA 19-9 Calibrator	No known significant effects or critical hazards.

Section 11. Toxicological information

Ingestion	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No known significant effects or critical hazards.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No known significant effects or critical hazards.
	CA 19-9 Calibrator	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No specific data.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No specific data.
	CA 19-9 Calibrator	No specific data.
Inhalation	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No specific data.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No specific data.
	CA 19-9 Calibrator	No specific data.
Skin contact	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No specific data.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No specific data.
	CA 19-9 Calibrator	No specific data.
Ingestion	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No specific data.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No specific data.
	CA 19-9 Calibrator	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.
Potential delayed effects	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.

Long term exposure

Potential immediate effects	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.
Potential delayed effects	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	: Not available.	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent
	Not available.	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase
	Not available.	CA 19-9 Calibrator

Section 11. Toxicological information

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
ADVIA® Centaur CA 19-9 ReadyPack Solid Phase Oral	47619 mg/kg

Interactive effects	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.

Other information	: ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not available.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not available.
	CA 19-9 Calibrator	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Gentamicin, sulfate (salt)	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocyctis pyrifera	96 hours
	Acute EC50 21.2 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 >955 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
ADVIA® Centaur CA 19-9 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 - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
sodium azide	Acute LC50 6000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Gentamicin, sulfate (salt)	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocyctis pyrifera	96 hours
	Acute EC50 21.2 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 >955 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Section 12. Ecological information

CA 19-9 Calibrator sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Gentamicin, sulfate (salt)	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocyctis pyrifera	96 hours
	Acute EC50 21.2 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 >955 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

Persistence and degradability

Conclusion/Summary : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

Mobility : ADVIA® Centaur CA 19-9 ReadyPack Lite Not available.
 Reagent
 ADVIA® Centaur CA 19-9 ReadyPack Not available.
 Solid Phase
 CA 19-9 Calibrator Not available.

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

Section 13. Disposal considerations

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

Section 14. Transport information

DOT Classification

UN number	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not regulated.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not regulated.
	CA 19-9 Calibrator	Not regulated.
UN proper shipping name	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-
Transport hazard class(es)	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-
Packing group	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-
Environmental hazards	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No.
	CA 19-9 Calibrator	No.
Additional information	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

TDG Classification

UN number	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not regulated.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not regulated.
	CA 19-9 Calibrator	Not regulated.
UN proper shipping name	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-
Transport hazard class(es)	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-
Packing group	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-
Environmental hazards	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No.
	CA 19-9 Calibrator	No.
Additional information	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Mexico Classification

UN number	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not regulated.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not regulated.
	CA 19-9 Calibrator	Not regulated.
UN proper shipping name	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Section 14. Transport information

Transport hazard class(es)	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Packing group	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Environmental hazards	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No.
	CA 19-9 Calibrator	No.

Additional information	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

ADR/RID

UN number	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not regulated.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not regulated.
	CA 19-9 Calibrator	Not regulated.

UN proper shipping name	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Transport hazard class(es)	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Packing group	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Environmental hazards	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No.
	CA 19-9 Calibrator	No.

Additional information	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

IMDG

UN number	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not regulated.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not regulated.
	CA 19-9 Calibrator	Not regulated.

UN proper shipping name	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Transport hazard class(es)	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Packing group	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Section 14. Transport information

Environmental hazards	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No.
	CA 19-9 Calibrator	No.

Additional information	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

IATA

UN number	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	Not regulated.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	Not regulated.
	CA 19-9 Calibrator	Not regulated.

UN proper shipping name	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Transport hazard class(es)	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Packing group	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Environmental hazards	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	No.
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	No.
	CA 19-9 Calibrator	No.

Additional information	ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent	-
	ADVIA® Centaur CA 19-9 ReadyPack Solid Phase	-
	CA 19-9 Calibrator	-

Special precautions for user : ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent

ADVIA® Centaur CA 19-9 ReadyPack Solid Phase

CA 19-9 Calibrator

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.

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.

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.

Transport in bulk according to Annex II of MARPOL and the IBC Code

Proper shipping name :

Ship type :

Pollution category :

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: Poly(oxy-1,2-ethanediyl), α -[4-(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy-
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): Not determined.

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent sodium azide	0.09	Yes.	500	-	1000	-
ADVIA® Centaur CA 19-9 ReadyPack Solid Phase sodium azide	0.09	Yes.	500	-	1000	-
CA 19-9 Calibrator sodium azide	0.5	Yes.	500	-	1000	-

SARA 304 RQ : 441176.5 lbs / 200294.1 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent sodium azide	0.09	No.	No.	No.	Yes.	No.
ADVIA® Centaur CA 19-9 ReadyPack Solid Phase Poly(oxy-1,2-ethanediyl), α -[4-(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy-sodium azide	1.05	No.	No.	No.	Yes.	No.
	0.09	No.	No.	No.	Yes.	No.
CA 19-9 Calibrator sodium azide	0.5	No.	No.	No.	Yes.	No.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

Section 15. Regulatory information

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent gentamicin, sulfate (salt)	No.	Yes.	No.	No.
ADVIA® Centaur CA 19-9 ReadyPack Solid Phase gentamicin, sulfate (salt)	No.	Yes.	No.	No.
CA 19-9 Calibrator gentamicin, sulfate (salt)	No.	Yes.	No.	No.

International regulations

Chemical Weapons Convention List Schedule I Chemicals : ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent Not listed
ADVIA® Centaur CA 19-9 ReadyPack Solid Phase Not listed
CA 19-9 Calibrator Not listed

Chemical Weapons Convention List Schedule II Chemicals : ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent Not listed
ADVIA® Centaur CA 19-9 ReadyPack Solid Phase Not listed
CA 19-9 Calibrator Not listed

Chemical Weapons Convention List Schedule III Chemicals : ADVIA® Centaur CA 19-9 ReadyPack Lite Reagent Not listed
ADVIA® Centaur CA 19-9 ReadyPack Solid Phase Not listed
CA 19-9 Calibrator Not listed

Section 16. Other information

History

Date of issue/Date of revision : 8/25/2016

Version : 1.07

Key to abbreviations

: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

Allergen : Not available.