

SAFETY DATA SHEET

SIEMENS

ADVIA Centaur® ELF Control Set

SDS # : 10492342

Section 1. Identification

Product identifier : ADVIA Centaur® ELF Control Set
Product code : 10492342
Product type : Solid.

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)

Section 2. Hazards identification

OSHA/HCS status	: ADVIA Centaur® ELF Control 1	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® ELF Control 2	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® ELF Control 3	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® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not classified. Not classified. Not classified.
Additional information	: Potentially biohazardous material. Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.	
GHS label elements		
Signal word	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	No signal word. No signal word. No signal word.

Section 2. Hazards identification

Hazard statements	: ADVIA Centaur® ELF Control 1	No known significant effects or critical hazards.
	ADVIA Centaur® ELF Control 2	No known significant effects or critical hazards.
	ADVIA Centaur® ELF Control 3	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: ADVIA Centaur® ELF Control 1	Not applicable.
	ADVIA Centaur® ELF Control 2	Not applicable.
	ADVIA Centaur® ELF Control 3	Not applicable.
Response	: ADVIA Centaur® ELF Control 1	Not applicable.
	ADVIA Centaur® ELF Control 2	Not applicable.
	ADVIA Centaur® ELF Control 3	Not applicable.
Storage	: ADVIA Centaur® ELF Control 1	Not applicable.
	ADVIA Centaur® ELF Control 2	Not applicable.
	ADVIA Centaur® ELF Control 3	Not applicable.
Disposal	: ADVIA Centaur® ELF Control 1	Not applicable.
	ADVIA Centaur® ELF Control 2	Not applicable.
	ADVIA Centaur® ELF Control 3	Not applicable.
Supplemental label elements	: ADVIA Centaur® ELF Control 1	None known.
	ADVIA Centaur® ELF Control 2	None known.
	ADVIA Centaur® ELF Control 3	None known.
Hazards not otherwise classified	: ADVIA Centaur® ELF Control 1	None known.
	ADVIA Centaur® ELF Control 2	None known.
	ADVIA Centaur® ELF Control 3	None known.

Section 3. Composition/information on ingredients

Substance/mixture	: ADVIA Centaur® ELF Control 1	Mixture
	ADVIA Centaur® ELF Control 2	Mixture
	ADVIA Centaur® ELF Control 3	Mixture

Ingredient name	%	CAS number
ADVIA Centaur® ELF Control 1 sodium azide	0.9	26628-22-8
ADVIA Centaur® ELF Control 2 sodium azide	0.9	26628-22-8
ADVIA Centaur® ELF Control 3 sodium azide	0.9	26628-22-8

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® ELF Control 1	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® ELF Control 2	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.

Section 4. First aid measures

	ADVIA Centaur® ELF Control 3	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® ELF Control 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	ADVIA Centaur® ELF Control 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	ADVIA Centaur® ELF Control 3	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® ELF Control 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ADVIA Centaur® ELF Control 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ADVIA Centaur® ELF Control 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: ADVIA Centaur® ELF Control 1	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® ELF Control 2	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® ELF Control 3	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.
<u>Most important symptoms/effects, acute and delayed</u>		
<u>Potential acute health effects</u>		
Eye contact	: ADVIA Centaur® ELF Control 1	No known significant effects or critical hazards.
	ADVIA Centaur® ELF Control 2	No known significant effects or critical hazards.
	ADVIA Centaur® ELF Control 3	No known significant effects or critical hazards.

Section 4. First aid measures

Inhalation	: ADVIA Centaur® ELF Control 1	No known significant effects or critical hazards.
	ADVIA Centaur® ELF Control 2	No known significant effects or critical hazards.
	ADVIA Centaur® ELF Control 3	No known significant effects or critical hazards.
Skin contact	: ADVIA Centaur® ELF Control 1	No known significant effects or critical hazards.
	ADVIA Centaur® ELF Control 2	No known significant effects or critical hazards.
	ADVIA Centaur® ELF Control 3	No known significant effects or critical hazards.
Ingestion	: ADVIA Centaur® ELF Control 1	No known significant effects or critical hazards.
	ADVIA Centaur® ELF Control 2	No known significant effects or critical hazards.
	ADVIA Centaur® ELF Control 3	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: ADVIA Centaur® ELF Control 1	No specific data.
	ADVIA Centaur® ELF Control 2	No specific data.
	ADVIA Centaur® ELF Control 3	No specific data.
Inhalation	: ADVIA Centaur® ELF Control 1	No specific data.
	ADVIA Centaur® ELF Control 2	No specific data.
	ADVIA Centaur® ELF Control 3	No specific data.
Skin contact	: ADVIA Centaur® ELF Control 1	No specific data.
	ADVIA Centaur® ELF Control 2	No specific data.
	ADVIA Centaur® ELF Control 3	No specific data.
Ingestion	: ADVIA Centaur® ELF Control 1	No specific data.
	ADVIA Centaur® ELF Control 2	No specific data.
	ADVIA Centaur® ELF Control 3	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	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: No specific data.

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 5. Fire-fighting measures

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

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

Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. 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® ELF Control 1 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/m ³ , (as Sodium azide) Form: as Sodium azide NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: NAN3 CEIL: 0.3 mg/m ³ , (NAN3) NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: as HN3 CEIL: 0.1 ppm, (as HN3)

Section 8. Exposure controls/personal protection

ADVIA Centaur® ELF Control 2
sodium azide

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)

ADVIA Centaur® ELF Control 3
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)

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

Section 8. Exposure controls/personal protection

- 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.

Section 9. Physical and chemical properties

- Physical state** : ADVIA Centaur® ELF Control 1 Solid.
ADVIA Centaur® ELF Control 2 Solid.
ADVIA Centaur® ELF Control 3 Solid.
- Color** : ADVIA Centaur® ELF Control 1 Off-white.
ADVIA Centaur® ELF Control 2 Off-white.
ADVIA Centaur® ELF Control 3 Off-white.
- Odor** : ADVIA Centaur® ELF Control 1 Odorless.
ADVIA Centaur® ELF Control 2 Odorless.
ADVIA Centaur® ELF Control 3 Odorless.
- pH** : ADVIA Centaur® ELF Control 1 Not applicable.
ADVIA Centaur® ELF Control 2 Not applicable.
ADVIA Centaur® ELF Control 3 Not applicable.
- Flash point** : ADVIA Centaur® ELF Control 1 [Product does not sustain combustion.]
ADVIA Centaur® ELF Control 2 [Product does not sustain combustion.]
ADVIA Centaur® ELF Control 3 [Product does not sustain combustion.]
- Flammability (solid, gas)** : ADVIA Centaur® ELF Control 1 Not relevant/applicable due to nature of the product.
ADVIA Centaur® ELF Control 2 Not relevant/applicable due to nature of the product.
ADVIA Centaur® ELF Control 3 Not relevant/applicable due to nature of the product.
- Relative density** : ADVIA Centaur® ELF Control 1 Not relevant/applicable due to nature of the product.
ADVIA Centaur® ELF Control 2 Not relevant/applicable due to nature of the product.
ADVIA Centaur® ELF Control 3 Not relevant/applicable due to nature of the product.
- Solubility in water** : ADVIA Centaur® ELF Control 1 Not relevant/applicable due to nature of the product.
ADVIA Centaur® ELF Control 2 Not relevant/applicable due to nature of the product.
ADVIA Centaur® ELF Control 3 Not relevant/applicable due to nature of the product.

Section 9. Physical and chemical properties

Partition coefficient: n-octanol/water	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not available. Not available. Not available.
Auto-ignition temperature	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not available. Not available. Not available.
Viscosity	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not available. Not available. Not available.
Aerosol product		
Type of aerosol	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not applicable. Not applicable. Not applicable.

Section 10. Stability and reactivity

Reactivity	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	The product is stable. The product is stable. 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® ELF Control 1 sodium azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
ADVIA Centaur® ELF Control 2 sodium azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
ADVIA Centaur® ELF Control 3 sodium azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -

Section 11. Toxicological information

Conclusion/Summary : ADVIA Centaur® ELF Control 1 Not available.
 ADVIA Centaur® ELF Control 2 Not available.
 ADVIA Centaur® ELF Control 3 Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin : ADVIA Centaur® ELF Control 1 Not available.
 ADVIA Centaur® ELF Control 2 Not available.
 ADVIA Centaur® ELF Control 3 Not available.

Eyes : ADVIA Centaur® ELF Control 1 Not available.
 ADVIA Centaur® ELF Control 2 Not available.
 ADVIA Centaur® ELF Control 3 Not available.

Respiratory : ADVIA Centaur® ELF Control 1 Not available.
 ADVIA Centaur® ELF Control 2 Not available.
 ADVIA Centaur® ELF Control 3 Not available.

Sensitization

Not available.

Conclusion/Summary

Skin : ADVIA Centaur® ELF Control 1 Not available.
 ADVIA Centaur® ELF Control 2 Not available.
 ADVIA Centaur® ELF Control 3 Not available.

Respiratory : ADVIA Centaur® ELF Control 1 Not available.
 ADVIA Centaur® ELF Control 2 Not available.
 ADVIA Centaur® ELF Control 3 Not available.

Mutagenicity

Not available.

Conclusion/Summary : ADVIA Centaur® ELF Control 1 Not available.
 ADVIA Centaur® ELF Control 2 Not available.
 ADVIA Centaur® ELF Control 3 Not available.

Carcinogenicity

Not available.

Conclusion/Summary : ADVIA Centaur® ELF Control 1 Not available.
 ADVIA Centaur® ELF Control 2 Not available.
 ADVIA Centaur® ELF Control 3 Not available.

Reproductive toxicity

Not available.

Conclusion/Summary : ADVIA Centaur® ELF Control 1 Not available.
 ADVIA Centaur® ELF Control 2 Not available.
 ADVIA Centaur® ELF Control 3 Not available.

Teratogenicity

Not available.

Conclusion/Summary : ADVIA Centaur® ELF Control 1 Not available.
 ADVIA Centaur® ELF Control 2 Not available.
 ADVIA Centaur® ELF Control 3 Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not available. Not available. Not available.
<u>Potential acute health effects</u>		
Eye contact	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	No specific data. No specific data. No specific data.
Inhalation	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	No specific data. No specific data. No specific data.
Skin contact	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	No specific data. No specific data. No specific data.
Ingestion	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	No specific data. No specific data. 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® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not available. Not available. Not available.
Potential delayed effects	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not available. Not available. Not available.

Long term exposure

Potential immediate effects	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not available. Not available. Not available.
Potential delayed effects	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not available. Not available. Not available.

Potential chronic health effects

Section 11. Toxicological information

Not available.

Conclusion/Summary	: Not available. Not available. Not available.	ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3
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

Not available.

Interactive effects	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not available. Not available. Not available.
Other information	: ADVIA Centaur® ELF Control 1 ADVIA Centaur® ELF Control 2 ADVIA Centaur® ELF Control 3	Not available. Not available. Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ADVIA Centaur® ELF Control 1 sodium azide	Acute EC50 0.348 mg/l Fresh water Acute EC50 4.2 to 6.2 mg/l Fresh water Acute LC50 9000 µg/l Fresh water Acute LC50 0.68 mg/l Fresh water Chronic NOEC 5600 µg/l Marine water	Algae - Pseudokirchneriella subcapitata Daphnia - Daphnia pulex - Larvae Crustaceans - Gammarus lacustris Fish - Lepomis macrochirus Algae - Macrocystis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
ADVIA Centaur® ELF Control 2 sodium azide	Acute EC50 0.348 mg/l Fresh water Acute EC50 4.2 to 6.2 mg/l Fresh water Acute LC50 9000 µg/l Fresh water Acute LC50 0.68 mg/l Fresh water Chronic NOEC 5600 µg/l Marine water	Algae - Pseudokirchneriella subcapitata Daphnia - Daphnia pulex - Larvae Crustaceans - Gammarus lacustris Fish - Lepomis macrochirus Algae - Macrocystis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
ADVIA Centaur® ELF Control 3 sodium azide	Acute EC50 0.348 mg/l Fresh water Acute EC50 4.2 to 6.2 mg/l Fresh water Acute LC50 9000 µg/l Fresh water Acute LC50 0.68 mg/l Fresh water Chronic NOEC 5600 µg/l Marine water	Algae - Pseudokirchneriella subcapitata Daphnia - Daphnia pulex - Larvae Crustaceans - Gammarus lacustris Fish - Lepomis macrochirus Algae - Macrocystis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours

Section 12. Ecological information

Conclusion/Summary	: ADVIA Centaur® ELF Control 1	Not available.
	ADVIA Centaur® ELF Control 2	Not available.
	ADVIA Centaur® ELF Control 3	Not available.

Persistence and degradability

Conclusion/Summary	: ADVIA Centaur® ELF Control 1	Not available.
	ADVIA Centaur® ELF Control 2	Not available.
	ADVIA Centaur® ELF Control 3	Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc})	: ADVIA Centaur® ELF Control 1	Not available.
	ADVIA Centaur® ELF Control 2	Not available.
	ADVIA Centaur® ELF Control 3	Not available.
Mobility	: ADVIA Centaur® ELF Control 1	Not available.
	ADVIA Centaur® ELF Control 2	Not available.
	ADVIA Centaur® ELF Control 3	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.
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Section 14. Transport information

DOT Classification

UN number	ADVIA Centaur® ELF Control 1	Not regulated.
	ADVIA Centaur® ELF Control 2	Not regulated.
	ADVIA Centaur® ELF Control 3	Not regulated.
UN proper shipping name	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-
Transport hazard class(es)	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-
Packing group	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-
Environmental hazards	ADVIA Centaur® ELF Control 1	No.
	ADVIA Centaur® ELF Control 2	No.
	ADVIA Centaur® ELF Control 3	No.

Section 14. Transport information

Additional information	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-

TDG Classification

UN number	ADVIA Centaur® ELF Control 1	Not regulated.
	ADVIA Centaur® ELF Control 2	Not regulated.
	ADVIA Centaur® ELF Control 3	Not regulated.
UN proper shipping name	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-
Transport hazard class(es)	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-

Packing group	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-

Environmental hazards	ADVIA Centaur® ELF Control 1	No.
	ADVIA Centaur® ELF Control 2	No.
	ADVIA Centaur® ELF Control 3	No.

Additional information	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-

ADR/RID

UN number	ADVIA Centaur® ELF Control 1	Not regulated.
	ADVIA Centaur® ELF Control 2	Not regulated.
	ADVIA Centaur® ELF Control 3	Not regulated.

UN proper shipping name	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-

Transport hazard class(es)	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-

Packing group	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-

Environmental hazards	ADVIA Centaur® ELF Control 1	No.
	ADVIA Centaur® ELF Control 2	No.
	ADVIA Centaur® ELF Control 3	No.

Additional information	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-

IMDG

UN number	ADVIA Centaur® ELF Control 1	Not regulated.
	ADVIA Centaur® ELF Control 2	Not regulated.
	ADVIA Centaur® ELF Control 3	Not regulated.

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UN proper shipping name	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-
Transport hazard class(es)	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-
Packing group	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-
Environmental hazards	ADVIA Centaur® ELF Control 1	No.
	ADVIA Centaur® ELF Control 2	No.
	ADVIA Centaur® ELF Control 3	No.
Additional information	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-

IATA

UN number	ADVIA Centaur® ELF Control 1	Not regulated.
	ADVIA Centaur® ELF Control 2	Not regulated.
	ADVIA Centaur® ELF Control 3	Not regulated.
UN proper shipping name	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-
Transport hazard class(es)	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-
Packing group	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-
Environmental hazards	ADVIA Centaur® ELF Control 1	No.
	ADVIA Centaur® ELF Control 2	No.
	ADVIA Centaur® ELF Control 3	No.
Additional information	ADVIA Centaur® ELF Control 1	-
	ADVIA Centaur® ELF Control 2	-
	ADVIA Centaur® ELF Control 3	-

Special precautions for user : ADVIA Centaur® ELF Control 1

ADVIA Centaur® ELF Control 2

ADVIA Centaur® ELF Control 3

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

Section 14. Transport information

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) 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 : Not listed
Class I Substances

Clean Air Act Section 602 : Not listed
Class II Substances

DEA List I Chemicals : Not listed
(Precursor Chemicals)

DEA List II Chemicals : Not listed
(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
ADVIA Centaur® ELF Control 1 sodium azide	0.9	Yes.	500	-	1000	-
ADVIA Centaur® ELF Control 2 sodium azide	0.9	Yes.	500	-	1000	-
ADVIA Centaur® ELF Control 3 sodium azide	0.9	Yes.	500	-	1000	-

SARA 304 RQ : 111111.1 lbs / 50444.4 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® ELF Control 1 sodium azide	0.9	No.	No.	No.	Yes.	No.
ADVIA Centaur® ELF Control 2 sodium azide	0.9	No.	No.	No.	Yes.	No.
ADVIA Centaur® ELF Control 3 sodium azide	0.9	No.	No.	No.	Yes.	No.

Section 15. Regulatory information

State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.

International regulations

Chemical Weapons	: ADVIA Centaur® ELF Control 1	Not listed
Convention List Schedule I	ADVIA Centaur® ELF Control 2	Not listed
Chemicals	ADVIA Centaur® ELF Control 3	Not listed
Chemical Weapons	: ADVIA Centaur® ELF Control 1	Not listed
Convention List Schedule II	ADVIA Centaur® ELF Control 2	Not listed
Chemicals	ADVIA Centaur® ELF Control 3	Not listed
Chemical Weapons	: ADVIA Centaur® ELF Control 1	Not listed
Convention List Schedule III	ADVIA Centaur® ELF Control 2	Not listed
Chemicals	ADVIA Centaur® ELF Control 3	Not listed

Section 16. Other information

History

Date of issue/Date of revision	: 5/12/2017
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Version	: 1.05
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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	:
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