

SAFETY DATA SHEET

SIEMENS

ADVIA Centaur® Vitamin D Total MCM

**MSDS
no.**

10493257

Section 1. Identification

GHS product identifier : ADVIA Centaur® Vitamin D Total MCM

Product code : 10493257, 10699746

Other means of identification : ADVIA Centaur® Vitamin D MCM 1 10493257-1
ADVIA Centaur® Vitamin D MCM 2 to 10493257-2
MCM 5

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® Vitamin D MCM 1 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : ADVIA Centaur® Vitamin D MCM 1 ACUTE TOXICITY: ORAL - Category 4
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 ACUTE TOXICITY: SKIN - Category 3
ACUTE TOXICITY: ORAL - Category 4
ACUTE TOXICITY: SKIN - Category 4
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2.8%

GHS label elements

Hazard pictograms



Signal word

: ADVIA Centaur® Vitamin D MCM 1 Danger
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 Warning

Hazard statements

: ADVIA Centaur® Vitamin D MCM 1 H311 - Toxic in contact with skin.
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 H302 - Harmful if swallowed.
H302 + H312 - Harmful if swallowed or in contact with skin.

Precautionary statements

Section 2. Hazards identification

Prevention	: ADVIA Centaur® Vitamin D MCM 1	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
Response	: ADVIA Centaur® Vitamin D MCM 1	P301 - IF SWALLOWED: P312 - Call a POISON CENTER or physician if you feel unwell. P330 - Rinse mouth. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P362+P364 - Take off contaminated clothing and wash it before reuse.
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	P301 - IF SWALLOWED: P312 - Call a POISON CENTER or physician if you feel unwell. P330 - Rinse mouth. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P362+P364 - Take off contaminated clothing and wash it before reuse.
Storage	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not applicable. Not applicable.
Disposal	: ADVIA Centaur® Vitamin D MCM 1	P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
Supplemental label elements	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	None known. None known.
Hazards not otherwise classified	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Mixture Mixture
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Ingredient name	%	CAS number
ADVIA Centaur® Vitamin D MCM 1 sodium azide	2.07	26628-22-8
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 sodium azide	1.87	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® Vitamin D MCM 1

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

ADVIA Centaur® Vitamin D MCM 2 to MCM 5

Inhalation

: ADVIA Centaur® Vitamin D MCM 1

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

ADVIA Centaur® Vitamin D MCM 2 to MCM 5

Skin contact

: ADVIA Centaur® Vitamin D MCM 1

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. Wash clothing before reuse.

ADVIA Centaur® Vitamin D MCM 2 to MCM 5

Section 4. First aid measures

Ingestion

: ADVIA Centaur® Vitamin D MCM 1

Clean shoes thoroughly before reuse.

Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

ADVIA Centaur® Vitamin D MCM 2 to MCM 5

Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: ADVIA Centaur® Vitamin D MCM 1

No known significant effects or critical hazards.

ADVIA Centaur® Vitamin D MCM 2 to MCM 5

No known significant effects or critical hazards.

Inhalation

: ADVIA Centaur® Vitamin D MCM 1

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

ADVIA Centaur® Vitamin D MCM 2 to MCM 5

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact

: ADVIA Centaur® Vitamin D MCM 1
ADVIA Centaur® Vitamin D MCM 2 to MCM 5

Toxic in contact with skin.
Harmful in contact with skin.

Ingestion

: ADVIA Centaur® Vitamin D MCM 1
ADVIA Centaur® Vitamin D MCM 2 to MCM 5

Harmful if swallowed.
Harmful if swallowed.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No specific data. No specific data.
Inhalation	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No specific data. No specific data.
Skin contact	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No specific data. No specific data.
Ingestion	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No specific data. No specific data.

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

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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.
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Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds metal oxide/oxides
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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.
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

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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Section 6. Accidental release measures

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. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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® Vitamin D MCM 1 sodium azide	OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (as NaN3) NIOSH REL (United States, 10/2013). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (NaN3) ACGIH TLV (United States, 6/2013). C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor C: 0.29 mg/m ³ , (as Sodium azide) Form: as Sodium azide
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 sodium azide	OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (as NaN3) NIOSH REL (United States, 10/2013). Absorbed through skin.

Section 8. Exposure controls/personal protection

CEIL: 0.1 ppm, (as HN3)
 CEIL: 0.3 mg/m³, (NaN3)
ACGIH TLV (United States, 6/2013).
 C: 0.11 ppm, (as Hydrazoic acid vapor)
 Form: as Hydrazoic acid vapor
 C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide

- 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

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|-----------------------|---|------------|
| Physical state | : ADVIA Centaur® Vitamin D MCM 1 | Solid. |
| | : ADVIA Centaur® Vitamin D MCM 2 to MCM 5 | Solid. |
| Color | : ADVIA Centaur® Vitamin D MCM 1 | Yellowish. |
| | : ADVIA Centaur® Vitamin D MCM 2 to MCM 5 | Yellowish. |
| Odor | : ADVIA Centaur® Vitamin D MCM 1 | Odorless. |
| | : ADVIA Centaur® Vitamin D MCM 2 to MCM 5 | Odorless. |
| pH | : ADVIA Centaur® Vitamin D MCM 1 | 7 |
| | : ADVIA Centaur® Vitamin D MCM 2 to MCM 5 | 7 |

Section 9. Physical and chemical properties

Flash point	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	[Product does not sustain combustion.] [Product does not sustain combustion.]
Flammability (solid, gas)	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not available. Not available.
Relative density	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not available. Not available.
Solubility in water	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not available. Not available.
Partition coefficient: n-octanol/water	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not available. Not available.
Auto-ignition temperature	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not available. Not available.
Viscosity	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not available. Not available.

Section 10. Stability and reactivity

Reactivity	: ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	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® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	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® Vitamin D MCM 1 sodium azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 sodium azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -

Conclusion/Summary :

Section 11. Toxicological information

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin :

Eyes :

Respiratory :

Sensitization

Not available.

Conclusion/Summary

Skin :

Respiratory :

Mutagenicity

Not available.

Conclusion/Summary :

Carcinogenicity

Not available.

Conclusion/Summary :

Reproductive toxicity

Not available.

Conclusion/Summary :

Teratogenicity

Not available.

Conclusion/Summary :

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 : Not available.

Potential acute health effects

Eye contact	: ADVIA Centaur® Vitamin D MCM 1	No known significant effects or critical hazards.
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No known significant effects or critical hazards.
Inhalation	: ADVIA Centaur® Vitamin D MCM 1	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: ADVIA Centaur® Vitamin D MCM 1	Toxic in contact with skin.
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Harmful in contact with skin.
Ingestion	: ADVIA Centaur® Vitamin D MCM 1	Harmful if swallowed.
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Harmful if swallowed.

Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: ADVIA Centaur® Vitamin D MCM 1	No specific data.
	: ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No specific data.
Inhalation	: ADVIA Centaur® Vitamin D MCM 1	No specific data.
	: ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No specific data.
Skin contact	: ADVIA Centaur® Vitamin D MCM 1	No specific data.
	: ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No specific data.
Ingestion	: ADVIA Centaur® Vitamin D MCM 1	No specific data.
	: ADVIA Centaur® Vitamin D MCM 2 to MCM 5	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® Vitamin D MCM 1	Not available.
	: ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not available.
Potential delayed effects	: ADVIA Centaur® Vitamin D MCM 1	Not available.
	: ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not available.

Long term exposure

Potential immediate effects	: ADVIA Centaur® Vitamin D MCM 1	Not available.
	: ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not available.
Potential delayed effects	: ADVIA Centaur® Vitamin D MCM 1	Not available.
	: ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	:
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® Vitamin D MCM 1	
Oral	1199.1 mg/kg
Dermal	966.2 mg/kg
ADVIA Centaur® Vitamin D MCM 2 to MCM 5	
Oral	1399.6 mg/kg
Dermal	1069.5 mg/kg

Other information :

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ADVIA Centaur® Vitamin D MCM 1 sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours

Conclusion/Summary :

Persistence and degradability

Conclusion/Summary :

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) :

Mobility :

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of 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.

United States - RCRA Acute hazardous waste "P" List

Section 13. Disposal considerations

Ingredient	CAS #	Status	Reference number
ADVIA Centaur® Vitamin D MCM 1 Sodium azide	26628-22-8	Listed	P105
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 Sodium azide	26628-22-8	Listed	P105

Section 14. Transport information

DOT Classification

UN number	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	UN3288 UN3288
UN proper shipping name	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Toxic solid, inorganic, n.o.s. (sodium azide) Toxic solid, inorganic, n.o.s. (sodium azide)
Transport hazard class(es)	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	6.1 6.1
Packing group	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	III III
Environmental hazards	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No. No.
Additional information	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Reportable quantity 48309.2 lbs / 21932.4 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. -

TDG Classification

UN number	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	UN3288 UN3288
UN proper shipping name	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Toxic solid, inorganic, n.o.s. (sodium azide) Toxic solid, inorganic, n.o.s. (sodium azide)
Transport hazard class(es)	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	6.1 6.1
Packing group	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	III III
Environmental hazards	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No. No.
Additional information	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	- -

Mexico Classification

UN number	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	UN3288 UN3288
UN proper shipping name	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Toxic solid, inorganic, n.o.s. (sodium azide) Toxic solid, inorganic, n.o.s. (sodium azide)

Section 14. Transport information

Transport hazard class(es)	ADVIA Centaur® Vitamin D MCM 1	6.1
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	6.1

Packing group	ADVIA Centaur® Vitamin D MCM 1	III
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	III

Environmental hazards	ADVIA Centaur® Vitamin D MCM 1	No.
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No.

Additional information	ADVIA Centaur® Vitamin D MCM 1	-
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	-

ADR/RID

UN number	ADVIA Centaur® Vitamin D MCM 1	UN3288
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	UN3288
UN proper shipping name	ADVIA Centaur® Vitamin D MCM 1	Toxic solid, inorganic, n.o.s. (sodium azide)
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Toxic solid, inorganic, n.o.s. (sodium azide)
Transport hazard class(es)	ADVIA Centaur® Vitamin D MCM 1	6.1
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	6.1

Packing group	ADVIA Centaur® Vitamin D MCM 1	III
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	III

Environmental hazards	ADVIA Centaur® Vitamin D MCM 1	No.
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No.

Additional information	ADVIA Centaur® Vitamin D MCM 1	Tunnel code (E)
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Tunnel code (E)

IMDG

UN number	ADVIA Centaur® Vitamin D MCM 1	UN3288
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	UN3288
UN proper shipping name	ADVIA Centaur® Vitamin D MCM 1	Toxic solid, inorganic, n.o.s. (sodium azide)
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Toxic solid, inorganic, n.o.s. (sodium azide)
Transport hazard class(es)	ADVIA Centaur® Vitamin D MCM 1	6.1
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	6.1

Packing group	ADVIA Centaur® Vitamin D MCM 1	III
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	III

Environmental hazards	ADVIA Centaur® Vitamin D MCM 1	No.
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No.

Additional information	ADVIA Centaur® Vitamin D MCM 1	-
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	-

IATA

UN number	ADVIA Centaur® Vitamin D MCM 1	UN3288
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5	UN3288

Section 14. Transport information

UN proper shipping name	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	Toxic solid, inorganic, n.o.s. (sodium azide) Toxic solid, inorganic, n.o.s. (sodium azide)
Transport hazard class(es)	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	6.1 6.1
Packing group	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	III III
Environmental hazards	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	No. No.
Additional information	ADVIA Centaur® Vitamin D MCM 1 ADVIA Centaur® Vitamin D MCM 2 to MCM 5	- -

Special precautions for user :

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

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 Water Act (CWA) 311: Phosphoric acid, disodium salt, heptahydrate

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

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® Vitamin D MCM 1 sodium azide	2.07	Yes.	500	-	1000	-
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 sodium azide	1.87	Yes.	500	-	1000	-

SARA 304 RQ : 52356 lbs / 23769.6 kg

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
ADVIA Centaur® Vitamin D MCM 1 sodium azide	2.07	No.	No.	No.	Yes.	No.
ADVIA Centaur® Vitamin D MCM 2 to MCM 5 sodium azide	1.87	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	ADVIA Centaur® Vitamin D MCM 1 sodium azide	26628-22-8	2.07
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5 sodium azide	26628-22-8	1.87
Supplier notification	ADVIA Centaur® Vitamin D MCM 1 sodium azide	26628-22-8	2.07
	ADVIA Centaur® Vitamin D MCM 2 to MCM 5 sodium azide	26628-22-8	1.87

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: SODIUM AZIDE
New York	: The following components are listed: Sodium azide
New Jersey	: The following components are listed: SODIUM AZIDE
Pennsylvania	: The following components are listed: SODIUM AZIDE (NA(N3))

Canada inventory :

International regulations

International lists	: Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory: Not determined. Korea inventory: Not determined. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.
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Chemical Weapons
Convention List Schedule I Chemicals :

Chemical Weapons
Convention List Schedule II Chemicals :

Chemical Weapons
Convention List Schedule III Chemicals :

Section 16. Other information

History

Date of issue/Date of revision : 7/27/2015.

Version : 1.03

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 73/78 = 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.