# SAFETY DATA SHEET

ADVIA Centaur® Vitamin D Total

SIEMENS

**MSDS no.** 10699201

## Section 1. Identification

**GHS product identifier** : ADVIA Centaur® Vitamin D Total

**Product code** : 10699201, 10699533

**Other means of identification** :

| | |
|---|---|
| Vitamin D Lite Reagent | 10492128 |
| Vitamin D Solid Phase | 10492129 |
| Vitamin D Ancillary Well Reagent | 10492215 |
| Vitamin D Ancillary Pack | 10492216 |
| ADVIA Centaur® Calibrator 34 - High Calibrator | 10492231 |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | 10492230 |

**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)

## Section 2. Hazards identification

**OSHA/HCS status** :

| | |
|---|---|
| Vitamin D Lite Reagent | This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Vitamin D Solid Phase | This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Vitamin D Ancillary Well Reagent | This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Vitamin D Ancillary Pack | This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| ADVIA Centaur® Calibrator 34 - High Calibrator | This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |

**Classification of the substance or mixture** :

| | |
|---|---|
| Vitamin D Lite Reagent | Not classified. |
| Vitamin D Solid Phase | Not classified. |
| Vitamin D Ancillary Well Reagent | Not classified. |
| Vitamin D Ancillary Pack | Not classified. |
| ADVIA Centaur® Calibrator 34 - High Calibrator | Not classified. |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | Not classified. |

**GHS label elements**

# Section 2. Hazards identification

| | | | |
|---|---|---|---|
| **Signal word** | : | Vitamin D Lite Reagent | No signal word. |
| | | Vitamin D Solid Phase | No signal word. |
| | | Vitamin D Ancillary Well Reagent | No signal word. |
| | | Vitamin D Ancillary Pack | No signal word. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No signal word. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No signal word. |
| **Hazard statements** | : | Vitamin D Lite Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Solid Phase | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Well Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Pack | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No known significant effects or critical hazards. |
| **Precautionary statements** | | | |
| **Prevention** | : | Vitamin D Lite Reagent | Not applicable. |
| | | Vitamin D Solid Phase | Not applicable. |
| | | Vitamin D Ancillary Well Reagent | Not applicable. |
| | | Vitamin D Ancillary Pack | Not applicable. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Not applicable. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not applicable. |
| **Response** | : | Vitamin D Lite Reagent | Not applicable. |
| | | Vitamin D Solid Phase | Not applicable. |
| | | Vitamin D Ancillary Well Reagent | Not applicable. |
| | | Vitamin D Ancillary Pack | Not applicable. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Not applicable. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not applicable. |
| **Storage** | : | Vitamin D Lite Reagent | Not applicable. |
| | | Vitamin D Solid Phase | Not applicable. |
| | | Vitamin D Ancillary Well Reagent | Not applicable. |
| | | Vitamin D Ancillary Pack | Not applicable. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Not applicable. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not applicable. |
| **Disposal** | : | Vitamin D Lite Reagent | Not applicable. |
| | | Vitamin D Solid Phase | Not applicable. |
| | | Vitamin D Ancillary Well Reagent | Not applicable. |
| | | Vitamin D Ancillary Pack | Not applicable. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Not applicable. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not applicable. |
| **Supplemental label elements** | : | Vitamin D Lite Reagent | None known. |
| | | Vitamin D Solid Phase | None known. |
| | | Vitamin D Ancillary Well Reagent | None known. |
| | | Vitamin D Ancillary Pack | None known. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | None known. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | None known. |

## Section 2. Hazards identification

| | | | |
|---|---|---|---|
| **Hazards not otherwise classified** | : | Vitamin D Lite Reagent | None known. |
| | | Vitamin D Solid Phase | None known. |
| | | Vitamin D Ancillary Well Reagent | None known. |
| | | Vitamin D Ancillary Pack | None known. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | None known. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | None known. |

## Section 3. Composition/information on ingredients

| | | | |
|---|---|---|---|
| **Substance/mixture** | : | Vitamin D Lite Reagent | Mixture |
| | | Vitamin D Solid Phase | Mixture |
| | | Vitamin D Ancillary Well Reagent | Mixture |
| | | Vitamin D Ancillary Pack | Mixture |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Mixture |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Mixture |

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

**There are no 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** | : | Vitamin D 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. |
| | | Vitamin D 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. |
| | | Vitamin D Ancillary Well 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. |
| | | Vitamin D Ancillary Pack | 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® Calibrator 34 - High 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. |
| | | ADVIA Centaur® Calibrator 34 - Low 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. |

## Section 4. First aid measures

| | | | |
|---|---|---|---|
| **Inhalation** | : | Vitamin D Lite Reagent | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | | Vitamin D Solid Phase | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | | Vitamin D Ancillary Well Reagent | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | | Vitamin D Ancillary Pack | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| **Skin contact** | : | Vitamin D Lite Reagent | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | | Vitamin D Solid Phase | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | | Vitamin D Ancillary Well Reagent | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | | Vitamin D Ancillary Pack | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| **Ingestion** | : | Vitamin D 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. |
| | | Vitamin D 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. |
| | | Vitamin D Ancillary Well 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 |

# Section 4. First aid measures

| | | |
|---|---|---|
| | | quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| | Vitamin D Ancillary Pack | 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® Calibrator 34 - High 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. |
| | ADVIA Centaur® Calibrator 34 - Low 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** | : | Vitamin D Lite Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Solid Phase | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Well Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Pack | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No known significant effects or critical hazards. |
| **Inhalation** | : | Vitamin D Lite Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Solid Phase | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Well Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Pack | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No known significant effects or critical hazards. |

# Section 4. First aid measures

| | | | |
|---|---|---|---|
| **Skin contact** | : | Vitamin D Lite Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Solid Phase | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Well Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Pack | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No known significant effects or critical hazards. |
| **Ingestion** | : | Vitamin D Lite Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Solid Phase | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Well Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Pack | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No known significant effects or critical hazards. |

**Over-exposure signs/symptoms**

| | | | |
|---|---|---|---|
| **Eye contact** | : | Vitamin D Lite Reagent | No specific data. |
| | | Vitamin D Solid Phase | No specific data. |
| | | Vitamin D Ancillary Well Reagent | No specific data. |
| | | Vitamin D Ancillary Pack | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No specific data. |
| **Inhalation** | : | Vitamin D Lite Reagent | No specific data. |
| | | Vitamin D Solid Phase | No specific data. |
| | | Vitamin D Ancillary Well Reagent | No specific data. |
| | | Vitamin D Ancillary Pack | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No specific data. |
| **Skin contact** | : | Vitamin D Lite Reagent | No specific data. |
| | | Vitamin D Solid Phase | No specific data. |
| | | Vitamin D Ancillary Well Reagent | No specific data. |
| | | Vitamin D Ancillary Pack | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No specific data. |
| **Ingestion** | : | Vitamin D Lite Reagent | No specific data. |
| | | Vitamin D Solid Phase | No specific data. |
| | | Vitamin D Ancillary Well Reagent | No specific data. |
| | | Vitamin D Ancillary Pack | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - Low 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. |

## Section 4. First aid measures

**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.

**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.

**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. 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".

**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** : 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.

## Section 7. Handling and storage

**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**

None.

**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.

**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, air-purifying or air-fed 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

**Physical state** :

| | |
|---|---|
| Vitamin D Lite Reagent | Liquid. |
| Vitamin D Solid Phase | Liquid. |
| Vitamin D Ancillary Well Reagent | Liquid. |
| Vitamin D Ancillary Pack | Liquid. |
| ADVIA Centaur® Calibrator 34 - High Calibrator | Solid. |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | Solid. |

# Section 9. Physical and chemical properties

| | | | |
|---|---|---|---|
| **Color** | : | Vitamin D Lite Reagent | Colorless. |
| | | Vitamin D Solid Phase | Black. |
| | | Vitamin D Ancillary Well Reagent | Green. [Light] |
| | | Vitamin D Ancillary Pack | Green. [Light] |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Yellowish. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Yellowish. |
| **Odor** | : | Vitamin D Lite Reagent | Odorless. |
| | | Vitamin D Solid Phase | Odorless. |
| | | Vitamin D Ancillary Well Reagent | Odorless. |
| | | Vitamin D Ancillary Pack | Odorless. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Odorless. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Odorless. |
| **pH** | : | Vitamin D Lite Reagent | 8 |
| | | Vitamin D Solid Phase | 8 |
| | | Vitamin D Ancillary Well Reagent | 8 |
| | | Vitamin D Ancillary Pack | 7.5 |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Not available. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not available. |
| **Flash point** | : | Vitamin D Lite Reagent | [Product does not sustain combustion.] |
| | | Vitamin D Solid Phase | [Product does not sustain combustion.] |
| | | Vitamin D Ancillary Well Reagent | [Product does not sustain combustion.] |
| | | Vitamin D Ancillary Pack | [Product does not sustain combustion.] |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | [Product does not sustain combustion.] |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | [Product does not sustain combustion.] |
| **Flammability (solid, gas)** | : | Vitamin D Lite Reagent | Not available. |
| | | Vitamin D Solid Phase | Not available. |
| | | Vitamin D Ancillary Well Reagent | Not available. |
| | | Vitamin D Ancillary Pack | Not available. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Not available. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not available. |
| **Relative density** | : | Vitamin D Lite Reagent | Not available. |
| | | Vitamin D Solid Phase | Not available. |
| | | Vitamin D Ancillary Well Reagent | Not available. |
| | | Vitamin D Ancillary Pack | Not available. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | 1.02 |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | 1.02 |
| **Solubility in water** | : | Vitamin D Lite Reagent | Not available. |
| | | Vitamin D Solid Phase | Not available. |
| | | Vitamin D Ancillary Well Reagent | Not available. |
| | | Vitamin D Ancillary Pack | Not available. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Not available. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not available. |
| **Partition coefficient: n-octanol/water** | : | Vitamin D Lite Reagent | Not available. |
| | | Vitamin D Solid Phase | Not available. |
| | | Vitamin D Ancillary Well Reagent | Not available. |
| | | Vitamin D Ancillary Pack | Not available. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | Not available. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not available. |

## Section 9. Physical and chemical properties

**Auto-ignition temperature** :

| | |
|---|---|
| Vitamin D Lite Reagent | Not available. |
| Vitamin D Solid Phase | Not available. |
| Vitamin D Ancillary Well Reagent | Not available. |
| Vitamin D Ancillary Pack | Not available. |
| ADVIA Centaur® Calibrator 34 - High Calibrator | Not available. |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | Not available. |

**Viscosity** :

| | |
|---|---|
| Vitamin D Lite Reagent | Not available. |
| Vitamin D Solid Phase | Not available. |
| Vitamin D Ancillary Well Reagent | Not available. |
| Vitamin D Ancillary Pack | Not available. |
| ADVIA Centaur® Calibrator 34 - High Calibrator | Not available. |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | Not available. |

## Section 10. Stability and reactivity

**Reactivity** :

| | |
|---|---|
| Vitamin D Lite Reagent | No specific test data related to reactivity available for this product or its ingredients. |
| Vitamin D Solid Phase | No specific test data related to reactivity available for this product or its ingredients. |
| Vitamin D Ancillary Well Reagent | No specific test data related to reactivity available for this product or its ingredients. |
| Vitamin D Ancillary Pack | No specific test data related to reactivity available for this product or its ingredients. |
| ADVIA Centaur® Calibrator 34 - High Calibrator | No specific test data related to reactivity available for this product or its ingredients. |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | No specific test data related to reactivity available for this product or its ingredients. |

**Chemical stability** :

| | |
|---|---|
| Vitamin D Lite Reagent | The product is stable. |
| Vitamin D Solid Phase | The product is stable. |
| Vitamin D Ancillary Well Reagent | The product is stable. |
| Vitamin D Ancillary Pack | The product is stable. |
| ADVIA Centaur® Calibrator 34 - High Calibrator | The product is stable. |
| ADVIA Centaur® Calibrator 34 - Low 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**

Not available.

**Conclusion/Summary** :

**Irritation/Corrosion**

Not available.

**Conclusion/Summary**

# Section 11. Toxicological information

**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** : | Vitamin D Lite Reagent | No known significant effects or critical hazards. |
| | Vitamin D Solid Phase | No known significant effects or critical hazards. |
| | Vitamin D Ancillary Well Reagent | No known significant effects or critical hazards. |
| | Vitamin D Ancillary Pack | No known significant effects or critical hazards. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | No known significant effects or critical hazards. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | No known significant effects or critical hazards. |
| **Inhalation** : | Vitamin D Lite Reagent | No known significant effects or critical hazards. |
| | Vitamin D Solid Phase | No known significant effects or critical hazards. |
| | Vitamin D Ancillary Well Reagent | No known significant effects or critical hazards. |
| | Vitamin D Ancillary Pack | No known significant effects or critical hazards. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | No known significant effects or critical hazards. |
| | ADVIA Centaur® Calibrator 34 - Low | No known significant effects or critical |

# Section 11. Toxicological information

| | | | |
|---|---|---|---|
| | | Calibrator | hazards. |
| **Skin contact** | : | Vitamin D Lite Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Solid Phase | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Well Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Pack | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No known significant effects or critical hazards. |
| **Ingestion** | : | Vitamin D Lite Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Solid Phase | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Well Reagent | No known significant effects or critical hazards. |
| | | Vitamin D Ancillary Pack | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No known significant effects or critical hazards. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No known significant effects or critical hazards. |

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

| | | | |
|---|---|---|---|
| **Eye contact** | : | Vitamin D Lite Reagent | No specific data. |
| | | Vitamin D Solid Phase | No specific data. |
| | | Vitamin D Ancillary Well Reagent | No specific data. |
| | | Vitamin D Ancillary Pack | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No specific data. |
| **Inhalation** | : | Vitamin D Lite Reagent | No specific data. |
| | | Vitamin D Solid Phase | No specific data. |
| | | Vitamin D Ancillary Well Reagent | No specific data. |
| | | Vitamin D Ancillary Pack | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No specific data. |
| **Skin contact** | : | Vitamin D Lite Reagent | No specific data. |
| | | Vitamin D Solid Phase | No specific data. |
| | | Vitamin D Ancillary Well Reagent | No specific data. |
| | | Vitamin D Ancillary Pack | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No specific data. |
| **Ingestion** | : | Vitamin D Lite Reagent | No specific data. |
| | | Vitamin D Solid Phase | No specific data. |
| | | Vitamin D Ancillary Well Reagent | No specific data. |
| | | Vitamin D Ancillary Pack | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - High Calibrator | No specific data. |
| | | ADVIA Centaur® Calibrator 34 - Low Calibrator | No specific data. |

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

### Short term exposure

# Section 11. Toxicological information

**Potential immediate effects** :

| | |
|---|---|
| Vitamin D Lite Reagent | Not available. |
| Vitamin D Solid Phase | Not available. |
| Vitamin D Ancillary Well Reagent | Not available. |
| Vitamin D Ancillary Pack | Not available. |
| ADVIA Centaur® Calibrator 34 - High Calibrator | Not available. |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | Not available. |

**Potential delayed effects** :

| | |
|---|---|
| Vitamin D Lite Reagent | Not available. |
| Vitamin D Solid Phase | Not available. |
| Vitamin D Ancillary Well Reagent | Not available. |
| Vitamin D Ancillary Pack | Not available. |
| ADVIA Centaur® Calibrator 34 - High Calibrator | Not available. |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | Not available. |

## Long term exposure

**Potential immediate effects** :

| | |
|---|---|
| Vitamin D Lite Reagent | Not available. |
| Vitamin D Solid Phase | Not available. |
| Vitamin D Ancillary Well Reagent | Not available. |
| Vitamin D Ancillary Pack | Not available. |
| ADVIA Centaur® Calibrator 34 - High Calibrator | Not available. |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | Not available. |

**Potential delayed effects** :

| | |
|---|---|
| Vitamin D Lite Reagent | Not available. |
| Vitamin D Solid Phase | Not available. |
| Vitamin D Ancillary Well Reagent | Not available. |
| Vitamin D Ancillary Pack | Not available. |
| ADVIA Centaur® Calibrator 34 - High Calibrator | Not available. |
| ADVIA Centaur® Calibrator 34 - Low Calibrator | 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 |
|---|---|
| **Vitamin D Ancillary Pack**<br>Oral | 9259.3 mg/kg |

**Other information** :

## Section 12. Ecological information

### Toxicity

Not available.

**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. 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** | Vitamin D Lite Reagent | Not regulated. |
| | Vitamin D Solid Phase | Not regulated. |
| | Vitamin D Ancillary Well Reagent | Not regulated. |
| | Vitamin D Ancillary Pack | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not regulated. |
| **UN proper shipping name** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Transport hazard class(es)** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |

# Section 14. Transport information

| | | |
|---|---|---|
| **Packing group** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Environmental hazards** | Vitamin D Lite Reagent | No. |
| | Vitamin D Solid Phase | No. |
| | Vitamin D Ancillary Well Reagent | No. |
| | Vitamin D Ancillary Pack | No. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | No. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | No. |
| **Additional information** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |

## TDG Classification

| | | |
|---|---|---|
| **UN number** | Vitamin D Lite Reagent | Not regulated. |
| | Vitamin D Solid Phase | Not regulated. |
| | Vitamin D Ancillary Well Reagent | Not regulated. |
| | Vitamin D Ancillary Pack | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not regulated. |
| **UN proper shipping name** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Transport hazard class(es)** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Packing group** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Environmental hazards** | Vitamin D Lite Reagent | No. |
| | Vitamin D Solid Phase | No. |
| | Vitamin D Ancillary Well Reagent | No. |
| | Vitamin D Ancillary Pack | No. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | No. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | No. |
| **Additional information** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |

# Section 14. Transport information

## Mexico Classification

| | | |
|---|---|---|
| **UN number** | Vitamin D Lite Reagent | Not regulated. |
| | Vitamin D Solid Phase | Not regulated. |
| | Vitamin D Ancillary Well Reagent | Not regulated. |
| | Vitamin D Ancillary Pack | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not regulated. |
| **UN proper shipping name** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Transport hazard class(es)** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Packing group** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Environmental hazards** | Vitamin D Lite Reagent | No. |
| | Vitamin D Solid Phase | No. |
| | Vitamin D Ancillary Well Reagent | No. |
| | Vitamin D Ancillary Pack | No. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | No. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | No. |
| **Additional information** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |

## ADR/RID

| | | |
|---|---|---|
| **UN number** | Vitamin D Lite Reagent | Not regulated. |
| | Vitamin D Solid Phase | Not regulated. |
| | Vitamin D Ancillary Well Reagent | Not regulated. |
| | Vitamin D Ancillary Pack | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not regulated. |
| **UN proper shipping name** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |

# Section 14. Transport information

| | | |
|---|---|---|
| **Transport hazard class(es)** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Packing group** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Environmental hazards** | Vitamin D Lite Reagent | No. |
| | Vitamin D Solid Phase | No. |
| | Vitamin D Ancillary Well Reagent | No. |
| | Vitamin D Ancillary Pack | No. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | No. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | No. |
| **Additional information** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |

## IMDG

| | | |
|---|---|---|
| **UN number** | Vitamin D Lite Reagent | Not regulated. |
| | Vitamin D Solid Phase | Not regulated. |
| | Vitamin D Ancillary Well Reagent | Not regulated. |
| | Vitamin D Ancillary Pack | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not regulated. |
| **UN proper shipping name** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Transport hazard class(es)** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Packing group** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |

# Section 14. Transport information

| | | |
|---|---|---|
| **Environmental hazards** | Vitamin D Lite Reagent | No. |
| | Vitamin D Solid Phase | No. |
| | Vitamin D Ancillary Well Reagent | No. |
| | Vitamin D Ancillary Pack | No. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | No. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | No. |
| **Additional information** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |

## IATA

| | | |
|---|---|---|
| **UN number** | Vitamin D Lite Reagent | Not regulated. |
| | Vitamin D Solid Phase | Not regulated. |
| | Vitamin D Ancillary Well Reagent | Not regulated. |
| | Vitamin D Ancillary Pack | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | Not regulated. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | Not regulated. |
| **UN proper shipping name** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Transport hazard class(es)** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Packing group** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |
| **Environmental hazards** | Vitamin D Lite Reagent | No. |
| | Vitamin D Solid Phase | No. |
| | Vitamin D Ancillary Well Reagent | No. |
| | Vitamin D Ancillary Pack | No. |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | No. |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | No. |
| **Additional information** | Vitamin D Lite Reagent | - |
| | Vitamin D Solid Phase | - |
| | Vitamin D Ancillary Well Reagent | - |
| | Vitamin D Ancillary Pack | - |
| | ADVIA Centaur® Calibrator 34 - High Calibrator | - |
| | ADVIA Centaur® Calibrator 34 - Low Calibrator | - |

**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 (lbs) | SARA 302 TPQ (gallons) | SARA 304 RQ (lbs) | SARA 304 RQ (gallons) |
|---|---|---|---|---|---|---|
| **Vitamin D Lite Reagent** sodium azide | 0.09 | Yes. | 500 | - | 1000 | - |
| **Vitamin D Solid Phase** sodium azide | 0.09 | Yes. | 500 | - | 1000 | - |
| **Vitamin D Ancillary Well Reagent** sodium azide | 0.09 | Yes. | 500 | - | 1000 | - |
| **Vitamin D Ancillary Pack** sodium azide | 0.09 | Yes. | 500 | - | 1000 | - |
| **ADVIA Centaur® Calibrator 34 - High Calibrator** sodium azide | 0.7 | Yes. | 500 | - | 1000 | - |
| **ADVIA Centaur® Calibrator 34 - Low Calibrator** sodium azide | 0.7 | Yes. | 500 | - | 1000 | - |

**SARA 304 RQ** : 574257.4 lbs / 260712.9 kg

## SARA 311/312

**Classification** : Not applicable.

### Composition/information on ingredients

No products were found.

## SARA 313

| | Product name | CAS number | % |
|---|---|---|---|
| **Form R - Reporting requirements** | **Vitamin D Ancillary Pack** ethanediol | 107-21-1 | 5.4 |
| **Supplier notification** | **Vitamin D Ancillary Pack** ethanediol | 107-21-1 | 5.4 |

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** : None of the components are listed.

## Section 15. Regulatory information

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

**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.

**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.**