(2012 OSHA Hazard Communication Standard (29 CFR 1910.1200))

SAFETY DATA SHEET

SIEMENS

Atellica™ IM Vitamin D Total (VitD)

SDS # : 11201772

Section 1. Identification

Product identifier : Atellica™ IM Vitamin D Total (VitD)

Product code : 11201772, 11201773

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 :

VitD Lite Reagent	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
VitD Solid Phase	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
VitD Ancillary Well Reagent	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
VitD Ancillary Pack	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.
VitD High Calibrator	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

Section 2. Hazards identification

		VitD Low Calibrator	and other users of this product. 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	:	VitD Lite Reagent	Not classified.
		VitD Solid Phase	Not classified.
		VitD Ancillary Well Reagent	Not classified.
		VitD Ancillary Pack	Not classified.
		VitD High Calibrator	Not classified.
		VitD Low Calibrator	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	:	VitD Lite Reagent	No signal word.
		VitD Solid Phase	No signal word.
		VitD Ancillary Well Reagent	No signal word.
		VitD Ancillary Pack	No signal word.
		VitD High Calibrator	No signal word.
		VitD Low Calibrator	No signal word.
Hazard statements	:	VitD Lite Reagent	No known significant effects or critical hazards.
		VitD Solid Phase	No known significant effects or critical hazards.
		VitD Ancillary Well Reagent	No known significant effects or critical hazards.
		VitD Ancillary Pack	No known significant effects or critical hazards.
		VitD High Calibrator	No known significant effects or critical hazards.
		VitD Low Calibrator	No known significant effects or critical hazards.

Precautionary statements

Prevention	:	VitD Lite Reagent	Not applicable.
		VitD Solid Phase	Not applicable.
		VitD Ancillary Well Reagent	Not applicable.
		VitD Ancillary Pack	Not applicable.
		VitD High Calibrator	Not applicable.
		VitD Low Calibrator	Not applicable.
Response	:	VitD Lite Reagent	Not applicable.
		VitD Solid Phase	Not applicable.
		VitD Ancillary Well Reagent	Not applicable.
		VitD Ancillary Pack	Not applicable.
		VitD High Calibrator	Not applicable.
		VitD Low Calibrator	Not applicable.
Storage	:	VitD Lite Reagent	Not applicable.
		VitD Solid Phase	Not applicable.
		VitD Ancillary Well Reagent	Not applicable.
		VitD Ancillary Pack	Not applicable.
		VitD High Calibrator	Not applicable.
		VitD Low Calibrator	Not applicable.

Section 2. Hazards identification

Disposal	:	VitD Lite Reagent	Not applicable.
		VitD Solid Phase	Not applicable.
		VitD Ancillary Well Reagent	Not applicable.
		VitD Ancillary Pack	Not applicable.
		VitD High Calibrator	Not applicable.
		VitD Low Calibrator	Not applicable.
Supplemental label elements	:	VitD Lite Reagent	None known.
		VitD Solid Phase	None known.
		VitD Ancillary Well Reagent	None known.
		VitD Ancillary Pack	None known.
		VitD High Calibrator	None known.
		VitD Low Calibrator	None known.
Hazards not otherwise classified	:	VitD Lite Reagent	None known.
		VitD Solid Phase	None known.
		VitD Ancillary Well Reagent	None known.
		VitD Ancillary Pack	None known.
		VitD High Calibrator	None known.
		VitD Low Calibrator	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	VitD Lite Reagent	Mixture
		VitD Solid Phase	Mixture
		VitD Ancillary Well Reagent	Mixture
		VitD Ancillary Pack	Mixture
		VitD High Calibrator	Mixture
		VitD Low Calibrator	Mixture

Ingredient name	%	CAS number
VitD Lite Reagent		
sodium azide	0.09	26628-22-8
VitD Solid Phase		
sodium azide	0.09	26628-22-8
VitD Ancillary Well Reagent		
sodium azide	0.09	26628-22-8
VitD Ancillary Pack		
ethanediol	5.4	107-21-1
sodium azide	0.09	26628-22-8
VitD High Calibrator		
sodium azide	0.7	26628-22-8
VitD Low Calibrator		
sodium azide	0.7	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	:	VitD 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.
		VitD 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.
		VitD 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.
		VitD 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.
		VitD 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.
		VitD 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.
Inhalation	:	VitD Lite Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		VitD Solid Phase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		VitD Ancillary Well Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		VitD Ancillary Pack	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		VitD High Calibrator	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		VitD 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	:	VitD Lite Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		VitD Solid Phase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		VitD Ancillary Well Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		VitD Ancillary Pack	Flush contaminated skin with plenty of

Section 4. First aid measures

			water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		VitD High Calibrator	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		VitD Low Calibrator	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	VitD 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.
		VitD 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.
		VitD 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 quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
		VitD 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.
		VitD 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.
		VitD 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

Section 4. First aid measures

symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	VitD Lite Reagent	No known significant effects or critical hazards.
		VitD Solid Phase	No known significant effects or critical hazards.
		VitD Ancillary Well Reagent	No known significant effects or critical hazards.
		VitD Ancillary Pack	No known significant effects or critical hazards.
		VitD High Calibrator	No known significant effects or critical hazards.
		VitD Low Calibrator	No known significant effects or critical hazards.
Inhalation	:	VitD Lite Reagent	No known significant effects or critical hazards.
		VitD Solid Phase	No known significant effects or critical hazards.
		VitD Ancillary Well Reagent	No known significant effects or critical hazards.
		VitD Ancillary Pack	No known significant effects or critical hazards.
		VitD High Calibrator	No known significant effects or critical hazards.
		VitD Low Calibrator	No known significant effects or critical hazards.
Skin contact	:	VitD Lite Reagent	No known significant effects or critical hazards.
		VitD Solid Phase	No known significant effects or critical hazards.
		VitD Ancillary Well Reagent	No known significant effects or critical hazards.
		VitD Ancillary Pack	No known significant effects or critical hazards.
		VitD High Calibrator	No known significant effects or critical hazards.
		VitD Low Calibrator	No known significant effects or critical hazards.
Ingestion	:	VitD Lite Reagent	No known significant effects or critical hazards.
		VitD Solid Phase	No known significant effects or critical hazards.
		VitD Ancillary Well Reagent	No known significant effects or critical hazards.
		VitD Ancillary Pack	No known significant effects or critical hazards.
		VitD High Calibrator	No known significant effects or critical hazards.
		VitD Low Calibrator	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	VitD Lite Reagent	No specific data.
		VitD Solid Phase	No specific data.
		VitD Ancillary Well Reagent	No specific data.
		VitD Ancillary Pack	No specific data.
		VitD High Calibrator	No specific data.
		VitD Low Calibrator	No specific data.

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Inhalation	:	VitD Lite Reagent	No specific data.
		VitD Solid Phase	No specific data.
		VitD Ancillary Well Reagent	No specific data.
		VitD Ancillary Pack	No specific data.
		VitD High Calibrator	No specific data.
		VitD Low Calibrator	No specific data.
Skin contact	:	VitD Lite Reagent	No specific data.
		VitD Solid Phase	No specific data.
		VitD Ancillary Well Reagent	No specific data.
		VitD Ancillary Pack	No specific data.
		VitD High Calibrator	No specific data.
		VitD Low Calibrator	No specific data.
Ingestion	:	VitD Lite Reagent	No specific data.
		VitD Solid Phase	No specific data.
		VitD Ancillary Well Reagent	No specific data.
		VitD Ancillary Pack	No specific data.
		VitD High Calibrator	No specific data.
		VitD 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.

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 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".

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 : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

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

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
VitD Lite Reagent sodium azide	**ACGIH TLV (United States, 3/2015). Notes: as hydrazoic acid vapor** C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor **ACGIH TLV (United States, 3/2015).** C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide **NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: NAN3** CEIL: 0.3 mg/m³, (NAN3) **NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: as HN3** CEIL: 0.1 ppm, (as HN3) **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as HN3** CEIL: 0.1 ppm, (as HN3) **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as NaN3** CEIL: 0.3 mg/m³, (as NaN3)
VitD Solid Phase	

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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)
VitD Ancillary Well Reagent	
sodium azide	**ACGIH TLV (United States, 3/2015). Notes: as hydrazoic acid vapor** C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor **ACGIH TLV (United States, 3/2015).** C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide **NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: NAN3** CEIL: 0.3 mg/m³, (NAN3) **NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: as HN3** CEIL: 0.1 ppm, (as HN3) **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as HN3** CEIL: 0.1 ppm, (as HN3) **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as NaN3** CEIL: 0.3 mg/m³, (as NaN3)
VitD Ancillary Pack	
ethanediol	**ACGIH TLV (United States, 3/2015).** C: 100 mg/m³ Form: Aerosol **OSHA PEL 1989 (United States, 3/1989).** CEIL: 125 mg/m³ CEIL: 50 ppm
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**

Section 8. Exposure controls/personal protection

	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)
VitD High Calibrator 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)
VitD Low Calibrator 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 :	VitD Lite Reagent	Liquid.
	VitD Solid Phase	Liquid.
	VitD Ancillary Well Reagent	Liquid.
	VitD Ancillary Pack	Liquid.
	VitD High Calibrator	Solid.
	VitD Low Calibrator	Solid.
Color :	VitD Lite Reagent	Colorless.
	VitD Solid Phase	Black.
	VitD Ancillary Well Reagent	Green. [Light]
	VitD Ancillary Pack	Green. [Light]
	VitD High Calibrator	Yellowish.
	VitD Low Calibrator	Yellowish.
Odor :	VitD Lite Reagent	Odorless.
	VitD Solid Phase	Odorless.
	VitD Ancillary Well Reagent	Odorless.
	VitD Ancillary Pack	Odorless.
	VitD High Calibrator	Odorless.
	VitD Low Calibrator	Odorless.
pH :	VitD Lite Reagent	8
	VitD Solid Phase	8
	VitD Ancillary Well Reagent	8
	VitD Ancillary Pack	7.5
	VitD High Calibrator	Not available.
	VitD Low Calibrator	Not available.
Flash point :	VitD Lite Reagent	[Product does not sustain combustion.]
	VitD Solid Phase	[Product does not sustain combustion.]
	VitD Ancillary Well Reagent	[Product does not sustain combustion.]
	VitD Ancillary Pack	[Product does not sustain combustion.]
	VitD High Calibrator	[Product does not sustain combustion.]
	VitD Low Calibrator	[Product does not sustain combustion.]

Section 9. Physical and chemical properties

Flammability (solid, gas)	:	VitD Lite Reagent	Not relevant/applicable due to nature of the product.
		VitD Solid Phase	Not relevant/applicable due to nature of the product.
		VitD Ancillary Well Reagent	Not relevant/applicable due to nature of the product.
		VitD Ancillary Pack	Not relevant/applicable due to nature of the product.
		VitD High Calibrator	Not relevant/applicable due to nature of the product.
		VitD Low Calibrator	Not relevant/applicable due to nature of the product.
Relative density	:	VitD Lite Reagent	Not relevant/applicable due to nature of the product.
		VitD Solid Phase	Not relevant/applicable due to nature of the product.
		VitD Ancillary Well Reagent	Not relevant/applicable due to nature of the product.
		VitD Ancillary Pack	Not relevant/applicable due to nature of the product.
		VitD High Calibrator	1.02
		VitD Low Calibrator	1.02
Solubility in water	:	VitD Lite Reagent	Not relevant/applicable due to nature of the product.
		VitD Solid Phase	Not relevant/applicable due to nature of the product.
		VitD Ancillary Well Reagent	Not relevant/applicable due to nature of the product.
		VitD Ancillary Pack	Not relevant/applicable due to nature of the product.
		VitD High Calibrator	Not relevant/applicable due to nature of the product.
		VitD Low Calibrator	Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/water	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.
Auto-ignition temperature	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.
Viscosity	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.
Aerosol product			
Type of aerosol	:	VitD Lite Reagent	Not applicable.
		VitD Solid Phase	Not applicable.
		VitD Ancillary Well Reagent	Not applicable.
		VitD Ancillary Pack	Not applicable.
		VitD High Calibrator	Not applicable.
		VitD Low Calibrator	Not applicable.

Section 10. Stability and reactivity

Reactivity :

VitD Lite Reagent	No specific test data related to reactivity available for this product or its ingredients.
VitD Solid Phase	No specific test data related to reactivity available for this product or its ingredients.
VitD Ancillary Well Reagent	No specific test data related to reactivity available for this product or its ingredients.
VitD Ancillary Pack	No specific test data related to reactivity available for this product or its ingredients.
VitD High Calibrator	No specific test data related to reactivity available for this product or its ingredients.
VitD Low Calibrator	No specific test data related to reactivity available for this product or its ingredients.

Chemical stability :

VitD Lite Reagent	The product is stable.
VitD Solid Phase	The product is stable.
VitD Ancillary Well Reagent	The product is stable.
VitD Ancillary Pack	The product is stable.
VitD High Calibrator	The product is stable.
VitD 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

Product/ingredient name	Result	Species	Dose	Exposure
VitD Lite Reagent				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
VitD Solid Phase				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
VitD Ancillary Well Reagent				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
VitD Ancillary Pack				
ethanediol	LD50 Oral	Rat	4700 mg/kg	-
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
VitD High Calibrator				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-

Section 11. Toxicological information

	LD50 Oral	Rat	27 mg/kg	-
VitD Low Calibrator				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-

Conclusion/Summary : VitD Lite Reagent: Not available.
VitD Solid Phase: Not available.
VitD Ancillary Well Reagent: Not available.
VitD Ancillary Pack: Not available.
VitD High Calibrator: Not available.
VitD Low Calibrator: Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
VitD Ancillary Pack					
ethanediol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	1 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440 milligrams	-
	Skin - Mild irritant	Rabbit	-	555 milligrams	-

Conclusion/Summary

Skin : VitD Lite Reagent: Not available.
VitD Solid Phase: Not available.
VitD Ancillary Well Reagent: Not available.
VitD Ancillary Pack: Not available.
VitD High Calibrator: Not available.
VitD Low Calibrator: Not available.

Eyes : VitD Lite Reagent: Not available.
VitD Solid Phase: Not available.
VitD Ancillary Well Reagent: Not available.
VitD Ancillary Pack: Not available.
VitD High Calibrator: Not available.
VitD Low Calibrator: Not available.

Respiratory : VitD Lite Reagent: Not available.
VitD Solid Phase: Not available.
VitD Ancillary Well Reagent: Not available.
VitD Ancillary Pack: Not available.
VitD High Calibrator: Not available.
VitD Low Calibrator: Not available.

Sensitization

Not available.

Conclusion/Summary

Skin : VitD Lite Reagent: Not available.
VitD Solid Phase: Not available.
VitD Ancillary Well Reagent: Not available.
VitD Ancillary Pack: Not available.
VitD High Calibrator: Not available.
VitD Low Calibrator: Not available.

Respiratory : VitD Lite Reagent: Not available.
VitD Solid Phase: Not available.
VitD Ancillary Well Reagent: Not available.
VitD Ancillary Pack: Not available.
VitD High Calibrator: Not available.
VitD Low Calibrator: Not available.

Mutagenicity

Not available.

Section 11. Toxicological information

Conclusion/Summary	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.

Carcinogenicity

Not available.

Conclusion/Summary	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.

Reproductive toxicity

Not available.

Conclusion/Summary	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.

Teratogenicity

Not available.

Conclusion/Summary	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.

Potential acute health effects

Eye contact	:	VitD Lite Reagent	No known significant effects or critical hazards.
		VitD Solid Phase	No known significant effects or critical hazards.
		VitD Ancillary Well Reagent	No known significant effects or critical hazards.
		VitD Ancillary Pack	No known significant effects or critical hazards.
		VitD High Calibrator	No known significant effects or critical hazards.
		VitD Low Calibrator	No known significant effects or critical hazards.

Section 11. Toxicological information

Inhalation	:	VitD Lite Reagent	No known significant effects or critical hazards.
		VitD Solid Phase	No known significant effects or critical hazards.
		VitD Ancillary Well Reagent	No known significant effects or critical hazards.
		VitD Ancillary Pack	No known significant effects or critical hazards.
		VitD High Calibrator	No known significant effects or critical hazards.
		VitD Low Calibrator	No known significant effects or critical hazards.
Skin contact	:	VitD Lite Reagent	No known significant effects or critical hazards.
		VitD Solid Phase	No known significant effects or critical hazards.
		VitD Ancillary Well Reagent	No known significant effects or critical hazards.
		VitD Ancillary Pack	No known significant effects or critical hazards.
		VitD High Calibrator	No known significant effects or critical hazards.
		VitD Low Calibrator	No known significant effects or critical hazards.
Ingestion	:	VitD Lite Reagent	No known significant effects or critical hazards.
		VitD Solid Phase	No known significant effects or critical hazards.
		VitD Ancillary Well Reagent	No known significant effects or critical hazards.
		VitD Ancillary Pack	No known significant effects or critical hazards.
		VitD High Calibrator	No known significant effects or critical hazards.
		VitD Low Calibrator	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	VitD Lite Reagent	No specific data.
		VitD Solid Phase	No specific data.
		VitD Ancillary Well Reagent	No specific data.
		VitD Ancillary Pack	No specific data.
		VitD High Calibrator	No specific data.
		VitD Low Calibrator	No specific data.
Inhalation	:	VitD Lite Reagent	No specific data.
		VitD Solid Phase	No specific data.
		VitD Ancillary Well Reagent	No specific data.
		VitD Ancillary Pack	No specific data.
		VitD High Calibrator	No specific data.
		VitD Low Calibrator	No specific data.
Skin contact	:	VitD Lite Reagent	No specific data.
		VitD Solid Phase	No specific data.
		VitD Ancillary Well Reagent	No specific data.
		VitD Ancillary Pack	No specific data.
		VitD High Calibrator	No specific data.
		VitD Low Calibrator	No specific data.
Ingestion	:	VitD Lite Reagent	No specific data.
		VitD Solid Phase	No specific data.
		VitD Ancillary Well Reagent	No specific data.
		VitD Ancillary Pack	No specific data.
		VitD High Calibrator	No specific data.
		VitD Low Calibrator	No specific data.

Section 11. Toxicological information

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

Short term exposure

Potential immediate effects	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.
Potential delayed effects	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.

Long term exposure

Potential immediate effects	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.
Potential delayed effects	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	:	Not available.	VitD Lite Reagent
		Not available.	VitD Solid Phase
		Not available.	VitD Ancillary Well Reagent
		Not available.	VitD Ancillary Pack
		Not available.	VitD High Calibrator
		Not available.	VitD Low Calibrator
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
VitD Ancillary Pack Oral	9259.3 mg/kg

Interactive effects	:	VitD Lite Reagent	Not available.
		VitD Solid Phase	Not available.
		VitD Ancillary Well Reagent	Not available.
		VitD Ancillary Pack	Not available.
		VitD High Calibrator	Not available.
		VitD Low Calibrator	Not available.

Section 11. Toxicological information

Other information :

VitD Lite Reagent	Not available.
VitD Solid Phase	Not available.
VitD Ancillary Well Reagent	Not available.
VitD Ancillary Pack	Not available.
VitD High Calibrator	Not available.
VitD Low Calibrator	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
VitD Lite Reagent			
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours
VitD Solid Phase			
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours
VitD Ancillary Well Reagent			
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours
VitD Ancillary Pack			
ethanediol	Acute LC50 13140000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 41000000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8050000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours
VitD High Calibrator			
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours
VitD Low Calibrator			
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours

Section 12. Ecological information

	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours

Conclusion/Summary :

VitD Lite Reagent	Not available.
VitD Solid Phase	Not available.
VitD Ancillary Well Reagent	Not available.
VitD Ancillary Pack	Not available.
VitD High Calibrator	Not available.
VitD Low Calibrator	Not available.

Persistence and degradability

Conclusion/Summary :

VitD Lite Reagent	Not available.
VitD Solid Phase	Not available.
VitD Ancillary Well Reagent	Not available.
VitD Ancillary Pack	Not available.
VitD High Calibrator	Not available.
VitD Low Calibrator	Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
VitD Ancillary Pack			
ethanediol	-1.36	-	low

Mobility in soil

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

VitD Lite Reagent	Not available.
VitD Solid Phase	Not available.
VitD Ancillary Well Reagent	Not available.
VitD Ancillary Pack	Not available.
VitD High Calibrator	Not available.
VitD Low Calibrator	Not available.

Mobility :

VitD Lite Reagent	Not available.
VitD Solid Phase	Not available.
VitD Ancillary Well Reagent	Not available.
VitD Ancillary Pack	Not available.
VitD High Calibrator	Not available.
VitD Low Calibrator	Not available.

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

Section 13. Disposal considerations

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

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

Section 14. Transport information

DOT Classification

UN number	VitD Lite Reagent	Not regulated.
	VitD Solid Phase	Not regulated.
	VitD Ancillary Well Reagent	Not regulated.
	VitD Ancillary Pack	Not regulated.
	VitD High Calibrator	Not regulated.
	VitD Low Calibrator	Not regulated.
UN proper shipping name	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Transport hazard class(es)	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Packing group	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Environmental hazards	VitD Lite Reagent	No.
	VitD Solid Phase	No.
	VitD Ancillary Well Reagent	No.
	VitD Ancillary Pack	No.
	VitD High Calibrator	No.
	VitD Low Calibrator	No.
Additional information	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-

TDG Classification

UN number	VitD Lite Reagent	Not regulated.
	VitD Solid Phase	Not regulated.
	VitD Ancillary Well Reagent	Not regulated.
	VitD Ancillary Pack	Not regulated.
	VitD High Calibrator	Not regulated.
	VitD Low Calibrator	Not regulated.
UN proper shipping name	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-

Section 14. Transport information

Transport hazard class(es)	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Packing group	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Environmental hazards	VitD Lite Reagent	No.
	VitD Solid Phase	No.
	VitD Ancillary Well Reagent	No.
	VitD Ancillary Pack	No.
	VitD High Calibrator	No.
	VitD Low Calibrator	No.
Additional information	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-

ADR/RID

UN number	VitD Lite Reagent	Not regulated.
	VitD Solid Phase	Not regulated.
	VitD Ancillary Well Reagent	Not regulated.
	VitD Ancillary Pack	Not regulated.
	VitD High Calibrator	Not regulated.
	VitD Low Calibrator	Not regulated.
UN proper shipping name	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Transport hazard class(es)	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Packing group	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-

Section 14. Transport information

Environmental hazards	VitD Lite Reagent	No.
	VitD Solid Phase	No.
	VitD Ancillary Well Reagent	No.
	VitD Ancillary Pack	No.
	VitD High Calibrator	No.
	VitD Low Calibrator	No.
Additional information	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-

IMDG

UN number	VitD Lite Reagent	Not regulated.
	VitD Solid Phase	Not regulated.
	VitD Ancillary Well Reagent	Not regulated.
	VitD Ancillary Pack	Not regulated.
	VitD High Calibrator	Not regulated.
	VitD Low Calibrator	Not regulated.
UN proper shipping name	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Transport hazard class(es)	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Packing group	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Environmental hazards	VitD Lite Reagent	No.
	VitD Solid Phase	No.
	VitD Ancillary Well Reagent	No.
	VitD Ancillary Pack	No.
	VitD High Calibrator	No.
	VitD Low Calibrator	No.
Additional information	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-

IATA

Section 14. Transport information

UN number	VitD Lite Reagent	Not regulated.
	VitD Solid Phase	Not regulated.
	VitD Ancillary Well Reagent	Not regulated.
	VitD Ancillary Pack	Not regulated.
	VitD High Calibrator	Not regulated.
	VitD Low Calibrator	Not regulated.
UN proper shipping name	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Transport hazard class(es)	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Packing group	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-
Environmental hazards	VitD Lite Reagent	No.
	VitD Solid Phase	No.
	VitD Ancillary Well Reagent	No.
	VitD Ancillary Pack	No.
	VitD High Calibrator	No.
	VitD Low Calibrator	No.
Additional information	VitD Lite Reagent	-
	VitD Solid Phase	-
	VitD Ancillary Well Reagent	-
	VitD Ancillary Pack	-
	VitD High Calibrator	-
	VitD Low Calibrator	-

Special precautions for user :	VitD Lite Reagent	**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.
	VitD Solid Phase	**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.
	VitD Ancillary Well Reagent	**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.
	VitD Ancillary Pack	**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.
VitD High Calibrator	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
VitD Low Calibrator	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : 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)
VitD Lite Reagent sodium azide	0.09	Yes.	500	-	1000	-
VitD Solid Phase sodium azide	0.09	Yes.	500	-	1000	-
VitD Ancillary Well Reagent sodium azide	0.09	Yes.	500	-	1000	-
VitD Ancillary Pack sodium azide	0.09	Yes.	500	-	1000	-
VitD High Calibrator sodium azide	0.7	Yes.	500	-	1000	-
VitD Low Calibrator						

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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

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
VitD Lite Reagent						
sodium azide	0.09	No.	No.	No.	Yes.	No.
VitD Solid Phase						
sodium azide	0.09	No.	No.	No.	Yes.	No.
VitD Ancillary Well Reagent						
sodium azide	0.09	No.	No.	No.	Yes.	No.
VitD Ancillary Pack						
ethanediol	5.4	No.	No.	No.	Yes.	No.
sodium azide	0.09	No.	No.	No.	Yes.	No.
VitD High Calibrator						
sodium azide	0.7	No.	No.	No.	Yes.	No.
VitD Low Calibrator						
sodium azide	0.7	No.	No.	No.	Yes.	No.

SARA 313

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

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

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

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
VitD Ancillary Pack ethanediol	No.	Yes.	No.	No.

International regulations

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Chemical Weapons Convention List Schedule I Chemicals	:	VitD Lite Reagent	Not listed
		VitD Solid Phase	Not listed
		VitD Ancillary Well Reagent	Not listed
		VitD Ancillary Pack	Not listed
		VitD High Calibrator	Not listed
		VitD Low Calibrator	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	VitD Lite Reagent	Not listed
		VitD Solid Phase	Not listed
		VitD Ancillary Well Reagent	Not listed
		VitD Ancillary Pack	Not listed
		VitD High Calibrator	Not listed
		VitD Low Calibrator	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	VitD Lite Reagent	Not listed
		VitD Solid Phase	Not listed
		VitD Ancillary Well Reagent	Not listed
		VitD Ancillary Pack	Not listed
		VitD High Calibrator	Not listed
		VitD Low Calibrator	Not listed

Section 16. Other information

History

Date of issue/Date of revision : 11/28/2017

Version : 1

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.