

SAFETY DATA SHEET

SIEMENS

Dimension® system Vitamin D Calibrator

SDS # : DEDM0413

Section 1. Identification

Product identifier : Dimension® system Vitamin D Calibrator
Product code : RC634, 10711395
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 Calibrator Level 1
Vitamin D Calibrator Level 2, 3, 4, 5
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture : Vitamin D Calibrator Level 1
Vitamin D Calibrator Level 2, 3, 4, 5
SKIN SENSITIZATION - Category 1
SKIN SENSITIZATION - Category 1
Additional information : Potentially biohazardous material.
Not available.

GHS label elements

Hazard pictograms :



Signal word : Vitamin D Calibrator Level 1
Vitamin D Calibrator Level 2, 3, 4, 5
Warning
Warning
Hazard statements : Vitamin D Calibrator Level 1
Vitamin D Calibrator Level 2, 3, 4, 5
H317 - May cause an allergic skin reaction.
H317 - May cause an allergic skin reaction.
Precautionary statements
Prevention : Vitamin D Calibrator Level 1
Vitamin D Calibrator Level 2, 3, 4, 5
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P272 - Contaminated work clothing should not be allowed out of the workplace.

Section 2. Hazards identification

Response	: Vitamin D Calibrator Level 1	P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.
	Vitamin D Calibrator Level 2, 3, 4, 5	P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.
Storage	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Not applicable. Not applicable.
Disposal	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	P501 - Dispose of contents and container in accordance with all local, regional, and national regulations. P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
Supplemental label elements	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	None known. None known.
Hazards not otherwise classified	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Mixture Mixture
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Ingredient name	%	CAS number
Vitamin D Calibrator Level 1 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0264	55965-84-9
Vitamin D Calibrator Level 2, 3, 4, 5 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0264	55965-84-9

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	: Vitamin D Calibrator Level 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	Vitamin D Calibrator Level 2, 3, 4, 5	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Section 4. First aid measures

Inhalation

: Vitamin D Calibrator Level 1

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

Vitamin D Calibrator Level 2, 3, 4, 5

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

Skin contact

: Vitamin D Calibrator Level 1

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Vitamin D Calibrator Level 2, 3, 4, 5

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Vitamin D Calibrator Level 1

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position

Section 4. First aid measures

Vitamin D Calibrator Level 2, 3, 4, 5

and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Vitamin D Calibrator Level 1	No known significant effects or critical hazards.
	Vitamin D Calibrator Level 2, 3, 4, 5	No known significant effects or critical hazards.
Inhalation	: Vitamin D Calibrator Level 1	No known significant effects or critical hazards.
	Vitamin D Calibrator Level 2, 3, 4, 5	No known significant effects or critical hazards.
Skin contact	: Vitamin D Calibrator Level 1	May cause an allergic skin reaction.
	Vitamin D Calibrator Level 2, 3, 4, 5	May cause an allergic skin reaction.
Ingestion	: Vitamin D Calibrator Level 1	No known significant effects or critical hazards.
	Vitamin D Calibrator Level 2, 3, 4, 5	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Vitamin D Calibrator Level 1	No specific data.
	Vitamin D Calibrator Level 2, 3, 4, 5	No specific data.
Inhalation	: Vitamin D Calibrator Level 1	No specific data.
	Vitamin D Calibrator Level 2, 3, 4, 5	No specific data.
Skin contact	: Vitamin D Calibrator Level 1	Adverse symptoms may include the following: irritation redness
	Vitamin D Calibrator Level 2, 3, 4, 5	Adverse symptoms may include the following: irritation redness
Ingestion	: Vitamin D Calibrator Level 1	No specific data.
	Vitamin D Calibrator Level 2, 3, 4, 5	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.
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Section 4. First aid measures

- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

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

Specific hazards arising from the chemical : 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

Methods and materials for containment and cleaning up

- Small spill** : 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. Approach release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilled product. 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 8. Exposure controls/personal protection

- 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	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Liquid. Liquid.
Color	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Straw. Straw.
Odor	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Odorless. Odorless.
pH	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	7.5 7.6
Flash point	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	[Product does not sustain combustion.] [Product does not sustain combustion.]
Flammability (solid, gas)	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
Relative density	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
Solubility in water	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/water	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Not available. Not available.
Auto-ignition temperature	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Not available. Not available.
Viscosity	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Not available. Not available.
<u>Aerosol product</u>		
Type of aerosol	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	Not applicable. Not applicable.

Section 10. Stability and reactivity

Reactivity	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Vitamin D Calibrator Level 1 Vitamin D Calibrator Level 2, 3, 4, 5	The product is stable. The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	: No specific data.	
Incompatible materials	: No specific data.	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Vitamin D Calibrator Level 1 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-
Vitamin D Calibrator Level 2, 3, 4, 5 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-

Conclusion/Summary : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Vitamin D Calibrator Level 1 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin - Severe irritant	Human	-	0.01 Percent	-
Vitamin D Calibrator Level 2, 3, 4, 5 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin - Severe irritant	Human	-	0.01 Percent	-

Conclusion/Summary

Skin : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Eyes : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Respiratory : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Sensitization

Not available.

Conclusion/Summary

Skin : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Respiratory : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Mutagenicity

Not available.

Conclusion/Summary : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Carcinogenicity

Not available.

Section 11. Toxicological information

Conclusion/Summary : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Reproductive toxicity

Not available.

Conclusion/Summary : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Teratogenicity

Not available.

Conclusion/Summary : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 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 : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Potential acute health effects

Eye contact : Vitamin D Calibrator Level 1 No known significant effects or critical hazards.
Vitamin D Calibrator Level 2, 3, 4, 5 No known significant effects or critical hazards.

Inhalation : Vitamin D Calibrator Level 1 No known significant effects or critical hazards.
Vitamin D Calibrator Level 2, 3, 4, 5 No known significant effects or critical hazards.

Skin contact : Vitamin D Calibrator Level 1 May cause an allergic skin reaction.
Vitamin D Calibrator Level 2, 3, 4, 5 May cause an allergic skin reaction.

Ingestion : Vitamin D Calibrator Level 1 No known significant effects or critical hazards.
Vitamin D Calibrator Level 2, 3, 4, 5 No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Vitamin D Calibrator Level 1 No specific data.
Vitamin D Calibrator Level 2, 3, 4, 5 No specific data.

Inhalation : Vitamin D Calibrator Level 1 No specific data.
Vitamin D Calibrator Level 2, 3, 4, 5 No specific data.

Skin contact : Vitamin D Calibrator Level 1 Adverse symptoms may include the following:
irritation
redness
Vitamin D Calibrator Level 2, 3, 4, 5 Adverse symptoms may include the following:
irritation
redness

Ingestion : Vitamin D Calibrator Level 1 No specific data.
Vitamin D Calibrator Level 2, 3, 4, 5 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 Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Potential delayed effects : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Long term exposure

Potential immediate effects : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Potential delayed effects : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available. Vitamin D Calibrator Level 1
Not available. Vitamin D Calibrator Level 2, 3, 4, 5

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Interactive effects : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Other information : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Section 12. Ecological information

Toxicity

Not available.

Conclusion/Summary : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Persistence and degradability

Conclusion/Summary : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 Not available.

Mobility : Vitamin D Calibrator Level 1 Not available.
Vitamin D Calibrator Level 2, 3, 4, 5 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

DOT Classification

UN number	Vitamin D Calibrator Level 1	Not regulated.
	Vitamin D Calibrator Level 2, 3, 4, 5	Not regulated.
UN proper shipping name	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-
Transport hazard class(es)	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Packing group	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-
Environmental hazards	Vitamin D Calibrator Level 1	No.
	Vitamin D Calibrator Level 2, 3, 4, 5	No.
Additional information	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

TDG Classification

UN number	Vitamin D Calibrator Level 1	Not regulated.
	Vitamin D Calibrator Level 2, 3, 4, 5	Not regulated.
UN proper shipping name	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-
Transport hazard class(es)	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Packing group	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-
Environmental hazards	Vitamin D Calibrator Level 1	No.
	Vitamin D Calibrator Level 2, 3, 4, 5	No.
Additional information	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

ADR/RID

UN number	Vitamin D Calibrator Level 1	Not regulated.
	Vitamin D Calibrator Level 2, 3, 4, 5	Not regulated.
UN proper shipping name	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Section 14. Transport information

Transport	Vitamin D Calibrator Level 1	-
hazard class(es)	Vitamin D Calibrator Level 2, 3, 4, 5	-

Packing group	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Environmental hazards	Vitamin D Calibrator Level 1	No.
	Vitamin D Calibrator Level 2, 3, 4, 5	No.

Additional information	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

IMDG

UN number	Vitamin D Calibrator Level 1	Not regulated.
	Vitamin D Calibrator Level 2, 3, 4, 5	Not regulated.

UN proper shipping name	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Transport hazard class(es)	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Packing group	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Environmental hazards	Vitamin D Calibrator Level 1	No.
	Vitamin D Calibrator Level 2, 3, 4, 5	No.

Additional information	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

IATA

UN number	Vitamin D Calibrator Level 1	Not regulated.
	Vitamin D Calibrator Level 2, 3, 4, 5	Not regulated.

UN proper shipping name	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Transport hazard class(es)	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Packing group	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Environmental hazards	Vitamin D Calibrator Level 1	No.
	Vitamin D Calibrator Level 2, 3, 4, 5	No.

Additional information	Vitamin D Calibrator Level 1	-
	Vitamin D Calibrator Level 2, 3, 4, 5	-

Section 14. Transport information

Special precautions for user : Vitamin D Calibrator Level 1

Vitamin D Calibrator Level 2, 3, 4, 5

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Proper shipping name :

Ship type :

Pollution category :

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: 1,1'-oxydipropyl-2-ol
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): Not determined.

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

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Vitamin D Calibrator Level 1 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0264	No.	No.	No.	Yes.	No.
Vitamin D Calibrator Level 2, 3, 4, 5 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]	0.0264	No.	No.	No.	Yes.	No.

Section 15. Regulatory information

and 2-methyl-2H-isothiazol-3-one [EC
no. 220-239-6] (3:1)

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
Vitamin D Calibrator Level 1 Neomycin sulfate	No.	Yes.	No.	No.
Vitamin D Calibrator Level 2, 3, 4, 5 Neomycin sulfate	No.	Yes.	No.	No.

International regulations

Chemical Weapons Convention List Schedule I Chemicals : Vitamin D Calibrator Level 1 Not listed
Vitamin D Calibrator Level 2, 3, 4, 5 Not listed

Chemical Weapons Convention List Schedule II Chemicals : Vitamin D Calibrator Level 1 Not listed
Vitamin D Calibrator Level 2, 3, 4, 5 Not listed

Chemical Weapons Convention List Schedule III Chemicals : Vitamin D Calibrator Level 1 Not listed
Vitamin D Calibrator Level 2, 3, 4, 5 Not listed

Section 16. Other information

History

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

Version : 1.02

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

Indicates information that has changed from previously issued version.

Notice to reader

Allergen :