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

SAFETY DATA SHEET

SIEMENS

Innovance D-DIMER

MSDS no. mrhm0004

Section 1. Identification

GHS product identifier : Innovance D-DIMER

Product code : OPBP, 10445980, 10445981

Other means of identification :

Innovance D-DIMER BUFFER	OPBS
Innovance D-DIMER CALIBRATOR	OPBV
Innovance D-DIMER DILUENT	OPBR03
Innovance D-DIMER REAGENT	OPBQ
Innovance D-DIMER SUPPLEMENT	OPBT

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 :

Innovance D-DIMER BUFFER	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Innovance D-DIMER CALIBRATOR	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Innovance D-DIMER DILUENT	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Innovance D-DIMER REAGENT	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Innovance D-DIMER SUPPLEMENT	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture :

Innovance D-DIMER BUFFER	Not classified.
Innovance D-DIMER CALIBRATOR	Not classified.
Innovance D-DIMER DILUENT	Not classified.
Innovance D-DIMER REAGENT	Not classified.
Innovance D-DIMER SUPPLEMENT	Not classified.

Potentially biohazardous material.

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

GHS label elements

Signal word :

Innovance D-DIMER BUFFER	No signal word.
Innovance D-DIMER CALIBRATOR	No signal word.
Innovance D-DIMER DILUENT	No signal word.
Innovance D-DIMER REAGENT	No signal word.
Innovance D-DIMER SUPPLEMENT	No signal word.

Section 2. Hazards identification

Hazard statements	:	Innovance D-DIMER BUFFER	No known significant effects or critical hazards.
		Innovance D-DIMER CALIBRATOR	No known significant effects or critical hazards.
		Innovance D-DIMER DILUENT	No known significant effects or critical hazards.
		Innovance D-DIMER REAGENT	No known significant effects or critical hazards.
		Innovance D-DIMER SUPPLEMENT	No known significant effects or critical hazards.
Precautionary statements			
Prevention	:	Innovance D-DIMER BUFFER	Not applicable.
		Innovance D-DIMER CALIBRATOR	Not applicable.
		Innovance D-DIMER DILUENT	Not applicable.
		Innovance D-DIMER REAGENT	Not applicable.
		Innovance D-DIMER SUPPLEMENT	Not applicable.
Response	:	Innovance D-DIMER BUFFER	Not applicable.
		Innovance D-DIMER CALIBRATOR	Not applicable.
		Innovance D-DIMER DILUENT	Not applicable.
		Innovance D-DIMER REAGENT	Not applicable.
		Innovance D-DIMER SUPPLEMENT	Not applicable.
Storage	:	Innovance D-DIMER BUFFER	Not applicable.
		Innovance D-DIMER CALIBRATOR	Not applicable.
		Innovance D-DIMER DILUENT	Not applicable.
		Innovance D-DIMER REAGENT	Not applicable.
		Innovance D-DIMER SUPPLEMENT	Not applicable.
Disposal	:	Innovance D-DIMER BUFFER	Not applicable.
		Innovance D-DIMER CALIBRATOR	Not applicable.
		Innovance D-DIMER DILUENT	Not applicable.
		Innovance D-DIMER REAGENT	Not applicable.
		Innovance D-DIMER SUPPLEMENT	Not applicable.
Supplemental label elements	:	Innovance D-DIMER BUFFER	None known.
		Innovance D-DIMER CALIBRATOR	None known.
		Innovance D-DIMER DILUENT	None known.
		Innovance D-DIMER REAGENT	None known.
		Innovance D-DIMER SUPPLEMENT	None known.
Hazards not otherwise classified	:	Innovance D-DIMER BUFFER	None known.
		Innovance D-DIMER CALIBRATOR	None known.
		Innovance D-DIMER DILUENT	None known.
		Innovance D-DIMER REAGENT	None known.
		Innovance D-DIMER SUPPLEMENT	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Innovance D-DIMER BUFFER	Mixture
		Innovance D-DIMER CALIBRATOR	Mixture
		Innovance D-DIMER DILUENT	Mixture
		Innovance D-DIMER REAGENT	Mixture
		Innovance D-DIMER SUPPLEMENT	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	:	Innovance D-DIMER BUFFER	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.
		Innovance D-DIMER 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.
		Innovance D-DIMER DILUENT	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.
		Innovance D-DIMER 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.
		Innovance D-DIMER SUPPLEMENT	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	:	Innovance D-DIMER BUFFER	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Innovance D-DIMER CALIBRATOR	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Innovance D-DIMER DILUENT	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Innovance D-DIMER REAGENT	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Innovance D-DIMER SUPPLEMENT	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Innovance D-DIMER BUFFER	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Innovance D-DIMER CALIBRATOR	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Innovance D-DIMER DILUENT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Innovance D-DIMER REAGENT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Innovance D-DIMER SUPPLEMENT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

Ingestion	:	Innovance D-DIMER BUFFER	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.
		Innovance D-DIMER 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.
		Innovance D-DIMER DILUENT	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.
		Innovance D-DIMER 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.
		Innovance D-DIMER SUPPLEMENT	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	:	Innovance D-DIMER BUFFER	No known significant effects or critical hazards.
		Innovance D-DIMER CALIBRATOR	No known significant effects or critical hazards.
		Innovance D-DIMER DILUENT	No known significant effects or critical hazards.
		Innovance D-DIMER REAGENT	No known significant effects or critical hazards.
		Innovance D-DIMER SUPPLEMENT	No known significant effects or critical hazards.

Section 4. First aid measures

Inhalation	:	Innovance D-DIMER BUFFER	No known significant effects or critical hazards.
		Innovance D-DIMER CALIBRATOR	No known significant effects or critical hazards.
		Innovance D-DIMER DILUENT	No known significant effects or critical hazards.
		Innovance D-DIMER REAGENT	No known significant effects or critical hazards.
		Innovance D-DIMER SUPPLEMENT	No known significant effects or critical hazards.
Skin contact	:	Innovance D-DIMER BUFFER	No known significant effects or critical hazards.
		Innovance D-DIMER CALIBRATOR	No known significant effects or critical hazards.
		Innovance D-DIMER DILUENT	No known significant effects or critical hazards.
		Innovance D-DIMER REAGENT	No known significant effects or critical hazards.
		Innovance D-DIMER SUPPLEMENT	No known significant effects or critical hazards.
Ingestion	:	Innovance D-DIMER BUFFER	No known significant effects or critical hazards.
		Innovance D-DIMER CALIBRATOR	No known significant effects or critical hazards.
		Innovance D-DIMER DILUENT	No known significant effects or critical hazards.
		Innovance D-DIMER REAGENT	No known significant effects or critical hazards.
		Innovance D-DIMER SUPPLEMENT	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	Innovance D-DIMER BUFFER	No specific data.
		Innovance D-DIMER CALIBRATOR	No specific data.
		Innovance D-DIMER DILUENT	No specific data.
		Innovance D-DIMER REAGENT	No specific data.
		Innovance D-DIMER SUPPLEMENT	No specific data.
Inhalation	:	Innovance D-DIMER BUFFER	No specific data.
		Innovance D-DIMER CALIBRATOR	No specific data.
		Innovance D-DIMER DILUENT	No specific data.
		Innovance D-DIMER REAGENT	No specific data.
		Innovance D-DIMER SUPPLEMENT	No specific data.
Skin contact	:	Innovance D-DIMER BUFFER	No specific data.
		Innovance D-DIMER CALIBRATOR	No specific data.
		Innovance D-DIMER DILUENT	No specific data.
		Innovance D-DIMER REAGENT	No specific data.
		Innovance D-DIMER SUPPLEMENT	No specific data.
Ingestion	:	Innovance D-DIMER BUFFER	No specific data.
		Innovance D-DIMER CALIBRATOR	No specific data.
		Innovance D-DIMER DILUENT	No specific data.
		Innovance D-DIMER REAGENT	No specific data.
		Innovance D-DIMER SUPPLEMENT	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 : Decomposition products may include the following materials:
halogenated compounds
metal oxide/oxides

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 :

Innovance D-DIMER BUFFER	Liquid.
Innovance D-DIMER CALIBRATOR	Solid.
Innovance D-DIMER DILUENT	Liquid.
Innovance D-DIMER REAGENT	Solid.
Innovance D-DIMER SUPPLEMENT	Liquid.

Color :

Innovance D-DIMER BUFFER	Clear.
Innovance D-DIMER CALIBRATOR	Colorless to light yellow.
Innovance D-DIMER DILUENT	Clear.
Innovance D-DIMER REAGENT	Colorless to light yellow.
Innovance D-DIMER SUPPLEMENT	Colorless.

Section 9. Physical and chemical properties

Odor	:	Innovance D-DIMER BUFFER	Odorless.
		Innovance D-DIMER CALIBRATOR	Odorless.
		Innovance D-DIMER DILUENT	Odorless.
		Innovance D-DIMER REAGENT	Odorless.
		Innovance D-DIMER SUPPLEMENT	Odorless.
pH	:	Innovance D-DIMER BUFFER	Not available.
		Innovance D-DIMER CALIBRATOR	Not available.
		Innovance D-DIMER DILUENT	7
		Innovance D-DIMER REAGENT	Not available.
		Innovance D-DIMER SUPPLEMENT	Not available.
Flash point	:	Innovance D-DIMER BUFFER	[Product does not sustain combustion.]
		Innovance D-DIMER CALIBRATOR	[Product does not sustain combustion.]
		Innovance D-DIMER DILUENT	[Product does not sustain combustion.]
		Innovance D-DIMER REAGENT	[Product does not sustain combustion.]
		Innovance D-DIMER SUPPLEMENT	[Product does not sustain combustion.]
Flammability (solid, gas)	:	Innovance D-DIMER BUFFER	Not available.
		Innovance D-DIMER CALIBRATOR	Not available.
		Innovance D-DIMER DILUENT	Not available.
		Innovance D-DIMER REAGENT	Not available.
		Innovance D-DIMER SUPPLEMENT	Not available.
Relative density	:	Innovance D-DIMER BUFFER	Not available.
		Innovance D-DIMER CALIBRATOR	Not available.
		Innovance D-DIMER DILUENT	1
		Innovance D-DIMER REAGENT	Not available.
		Innovance D-DIMER SUPPLEMENT	Not available.
Solubility in water	:	Innovance D-DIMER BUFFER	Not available.
		Innovance D-DIMER CALIBRATOR	Not available.
		Innovance D-DIMER DILUENT	Not available.
		Innovance D-DIMER REAGENT	Not available.
		Innovance D-DIMER SUPPLEMENT	Not available.
Partition coefficient: n-octanol/water	:	Innovance D-DIMER BUFFER	Not available.
		Innovance D-DIMER CALIBRATOR	Not available.
		Innovance D-DIMER DILUENT	Not available.
		Innovance D-DIMER REAGENT	Not available.
		Innovance D-DIMER SUPPLEMENT	Not available.
Auto-ignition temperature	:	Innovance D-DIMER BUFFER	Not available.
		Innovance D-DIMER CALIBRATOR	Not available.
		Innovance D-DIMER DILUENT	Not available.
		Innovance D-DIMER REAGENT	Not available.
		Innovance D-DIMER SUPPLEMENT	Not available.
Viscosity	:	Innovance D-DIMER BUFFER	Not available.
		Innovance D-DIMER CALIBRATOR	Not available.
		Innovance D-DIMER DILUENT	Not available.
		Innovance D-DIMER REAGENT	Not available.
		Innovance D-DIMER SUPPLEMENT	Not available.

Section 10. Stability and reactivity

Reactivity	:	Innovance D-DIMER BUFFER	No specific test data related to reactivity available for this product or its ingredients.
		Innovance D-DIMER CALIBRATOR	No specific test data related to reactivity available for this product or its ingredients.
		Innovance D-DIMER DILUENT	No specific test data related to reactivity available for this product or its ingredients.
		Innovance D-DIMER REAGENT	No specific test data related to reactivity available for this product or its ingredients.
		Innovance D-DIMER SUPPLEMENT	No specific test data related to reactivity available for this product or its ingredients.

Section 10. Stability and reactivity

Chemical stability :

Innovance D-DIMER BUFFER	The product is stable.
Innovance D-DIMER CALIBRATOR	The product is stable.
Innovance D-DIMER DILUENT	The product is stable.
Innovance D-DIMER REAGENT	The product is stable.
Innovance D-DIMER SUPPLEMENT	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 :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Eyes :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Respiratory :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Sensitization

Not available.

Conclusion/Summary

Skin :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Section 11. Toxicological information

Respiratory :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Mutagenicity

Not available.

Conclusion/Summary :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Carcinogenicity

Not available.

Conclusion/Summary :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Reproductive toxicity

Not available.

Conclusion/Summary :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Teratogenicity

Not available.

Conclusion/Summary :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	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 : Not available.

Potential acute health effects

Eye contact :

Innovance D-DIMER BUFFER	No known significant effects or critical hazards.
Innovance D-DIMER CALIBRATOR	No known significant effects or critical hazards.
Innovance D-DIMER DILUENT	No known significant effects or critical hazards.
Innovance D-DIMER REAGENT	No known significant effects or critical hazards.
Innovance D-DIMER SUPPLEMENT	No known significant effects or critical hazards.

Section 11. Toxicological information

Inhalation	:	Innovance D-DIMER BUFFER	No known significant effects or critical hazards.
		Innovance D-DIMER CALIBRATOR	No known significant effects or critical hazards.
		Innovance D-DIMER DILUENT	No known significant effects or critical hazards.
		Innovance D-DIMER REAGENT	No known significant effects or critical hazards.
		Innovance D-DIMER SUPPLEMENT	No known significant effects or critical hazards.
Skin contact	:	Innovance D-DIMER BUFFER	No known significant effects or critical hazards.
		Innovance D-DIMER CALIBRATOR	No known significant effects or critical hazards.
		Innovance D-DIMER DILUENT	No known significant effects or critical hazards.
		Innovance D-DIMER REAGENT	No known significant effects or critical hazards.
		Innovance D-DIMER SUPPLEMENT	No known significant effects or critical hazards.
Ingestion	:	Innovance D-DIMER BUFFER	No known significant effects or critical hazards.
		Innovance D-DIMER CALIBRATOR	No known significant effects or critical hazards.
		Innovance D-DIMER DILUENT	No known significant effects or critical hazards.
		Innovance D-DIMER REAGENT	No known significant effects or critical hazards.
		Innovance D-DIMER SUPPLEMENT	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	Innovance D-DIMER BUFFER	No specific data.
		Innovance D-DIMER CALIBRATOR	No specific data.
		Innovance D-DIMER DILUENT	No specific data.
		Innovance D-DIMER REAGENT	No specific data.
		Innovance D-DIMER SUPPLEMENT	No specific data.
Inhalation	:	Innovance D-DIMER BUFFER	No specific data.
		Innovance D-DIMER CALIBRATOR	No specific data.
		Innovance D-DIMER DILUENT	No specific data.
		Innovance D-DIMER REAGENT	No specific data.
		Innovance D-DIMER SUPPLEMENT	No specific data.
Skin contact	:	Innovance D-DIMER BUFFER	No specific data.
		Innovance D-DIMER CALIBRATOR	No specific data.
		Innovance D-DIMER DILUENT	No specific data.
		Innovance D-DIMER REAGENT	No specific data.
		Innovance D-DIMER SUPPLEMENT	No specific data.
Ingestion	:	Innovance D-DIMER BUFFER	No specific data.
		Innovance D-DIMER CALIBRATOR	No specific data.
		Innovance D-DIMER DILUENT	No specific data.
		Innovance D-DIMER REAGENT	No specific data.
		Innovance D-DIMER SUPPLEMENT	No specific data.

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

Short term exposure

Potential immediate effects	:	Innovance D-DIMER BUFFER	Not available.
		Innovance D-DIMER CALIBRATOR	Not available.
		Innovance D-DIMER DILUENT	Not available.
		Innovance D-DIMER REAGENT	Not available.
		Innovance D-DIMER SUPPLEMENT	Not available.

Section 11. Toxicological information

Potential delayed effects :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Long term exposure

Potential immediate effects :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Potential delayed effects :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary :

Not available.	Innovance D-DIMER BUFFER
Not available.	Innovance D-DIMER CALIBRATOR
Not available.	Innovance D-DIMER DILUENT
Not available.	Innovance D-DIMER REAGENT
Not available.	Innovance D-DIMER SUPPLEMENT

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
Innovance D-DIMER BUFFER	
Oral	187500 mg/kg
Innovance D-DIMER DILUENT	
Oral	100000 mg/kg
Innovance D-DIMER SUPPLEMENT	
Oral	103448.3 mg/kg

Interactive effects :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Other information :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Section 12. Ecological information

Toxicity

Not available.

Conclusion/Summary :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Persistence and degradability

Conclusion/Summary :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Bioaccumulative potential

Not available.

Mobility in soil

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

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	Not available.

Mobility :

Innovance D-DIMER BUFFER	Not available.
Innovance D-DIMER CALIBRATOR	Not available.
Innovance D-DIMER DILUENT	Not available.
Innovance D-DIMER REAGENT	Not available.
Innovance D-DIMER SUPPLEMENT	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

Innovance D-DIMER BUFFER	Not regulated.
Innovance D-DIMER CALIBRATOR	Not regulated.
Innovance D-DIMER DILUENT	Not regulated.
Innovance D-DIMER REAGENT	Not regulated.
Innovance D-DIMER SUPPLEMENT	Not regulated.

Section 14. Transport information

UN proper shipping name	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Transport hazard class(es)	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Packing group	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Environmental hazards	Innovance D-DIMER BUFFER	No.
	Innovance D-DIMER CALIBRATOR	No.
	Innovance D-DIMER DILUENT	No.
	Innovance D-DIMER REAGENT	No.
	Innovance D-DIMER SUPPLEMENT	No.
Additional information	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-

TDG Classification

UN number	Innovance D-DIMER BUFFER	Not regulated.
	Innovance D-DIMER CALIBRATOR	Not regulated.
	Innovance D-DIMER DILUENT	Not regulated.
	Innovance D-DIMER REAGENT	Not regulated.
	Innovance D-DIMER SUPPLEMENT	Not regulated.
UN proper shipping name	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Transport hazard class(es)	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Packing group	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Environmental hazards	Innovance D-DIMER BUFFER	No.
	Innovance D-DIMER CALIBRATOR	No.
	Innovance D-DIMER DILUENT	No.
	Innovance D-DIMER REAGENT	No.
	Innovance D-DIMER SUPPLEMENT	No.

Section 14. Transport information

Additional information	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-

Mexico Classification

UN number	Innovance D-DIMER BUFFER	Not regulated.
	Innovance D-DIMER CALIBRATOR	Not regulated.
	Innovance D-DIMER DILUENT	Not regulated.
	Innovance D-DIMER REAGENT	Not regulated.
	Innovance D-DIMER SUPPLEMENT	Not regulated.
UN proper shipping name	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Transport hazard class(es)	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Packing group	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Environmental hazards	Innovance D-DIMER BUFFER	No.
	Innovance D-DIMER CALIBRATOR	No.
	Innovance D-DIMER DILUENT	No.
	Innovance D-DIMER REAGENT	No.
	Innovance D-DIMER SUPPLEMENT	No.
Additional information	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-

ADR/RID

UN number	Innovance D-DIMER BUFFER	Not regulated.
	Innovance D-DIMER CALIBRATOR	Not regulated.
	Innovance D-DIMER DILUENT	Not regulated.
	Innovance D-DIMER REAGENT	Not regulated.
	Innovance D-DIMER SUPPLEMENT	Not regulated.
UN proper shipping name	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-

Section 14. Transport information

Transport hazard class(es)	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Packing group	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Environmental hazards	Innovance D-DIMER BUFFER	No.
	Innovance D-DIMER CALIBRATOR	No.
	Innovance D-DIMER DILUENT	No.
	Innovance D-DIMER REAGENT	No.
	Innovance D-DIMER SUPPLEMENT	No.
Additional information	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-

IMDG

UN number	Innovance D-DIMER BUFFER	Not regulated.
	Innovance D-DIMER CALIBRATOR	Not regulated.
	Innovance D-DIMER DILUENT	Not regulated.
	Innovance D-DIMER REAGENT	Not regulated.
	Innovance D-DIMER SUPPLEMENT	Not regulated.
UN proper shipping name	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Transport hazard class(es)	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Packing group	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Environmental hazards	Innovance D-DIMER BUFFER	No.
	Innovance D-DIMER CALIBRATOR	No.
	Innovance D-DIMER DILUENT	No.
	Innovance D-DIMER REAGENT	No.
	Innovance D-DIMER SUPPLEMENT	No.
Additional information	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-

Section 14. Transport information

IATA

UN number	Innovance D-DIMER BUFFER	Not regulated.
	Innovance D-DIMER CALIBRATOR	Not regulated.
	Innovance D-DIMER DILUENT	Not regulated.
	Innovance D-DIMER REAGENT	Not regulated.
	Innovance D-DIMER SUPPLEMENT	Not regulated.
UN proper shipping name	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Transport hazard class(es)	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Packing group	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-
Environmental hazards	Innovance D-DIMER BUFFER	No.
	Innovance D-DIMER CALIBRATOR	No.
	Innovance D-DIMER DILUENT	No.
	Innovance D-DIMER REAGENT	No.
	Innovance D-DIMER SUPPLEMENT	No.
Additional information	Innovance D-DIMER BUFFER	-
	Innovance D-DIMER CALIBRATOR	-
	Innovance D-DIMER DILUENT	-
	Innovance D-DIMER REAGENT	-
	Innovance D-DIMER SUPPLEMENT	-

Special precautions for user :	Innovance D-DIMER BUFFER	**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.
	Innovance D-DIMER 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.
	Innovance D-DIMER DILUENT	**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.
	Innovance D-DIMER 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.
	Innovance D-DIMER SUPPLEMENT	**Transport within user's premises:** always transport in closed containers that are

Section 14. Transport information

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 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) 307: Sulfuric acid, zinc salt (1:1), heptahydrate

Clean Water Act (CWA) 311: Sulfuric acid, zinc salt (1:1), 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)
Innovance D-DIMER BUFFER sodium azide	<0.1	Yes.	500	-	1000	-
Innovance D-DIMER CALIBRATOR sodium azide	<0.1	Yes.	500	-	1000	-
Innovance D-DIMER DILUENT sodium azide	<0.1	Yes.	500	-	1000	-
Innovance D-DIMER REAGENT sodium azide	0.000000054 - 0.000000126	Yes.	500	-	1000	-
Innovance D-DIMER SUPPLEMENT sodium azide	<0.1	Yes.	500	-	1000	-

SARA 304 RQ : 1249999.7 lbs / 567499.9 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

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.

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
Innovance D-DIMER REAGENT gentamicin, sulfate (salt)	No.	Yes.	No.	No.

International regulations

Chemical Weapons Convention List Schedule I Chemicals	:	Innovance D-DIMER BUFFER	Not listed
		Innovance D-DIMER CALIBRATOR	Not listed
		Innovance D-DIMER DILUENT	Not listed
		Innovance D-DIMER REAGENT	Not listed
		Innovance D-DIMER SUPPLEMENT	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Innovance D-DIMER BUFFER	Not listed
		Innovance D-DIMER CALIBRATOR	Not listed
		Innovance D-DIMER DILUENT	Not listed
		Innovance D-DIMER REAGENT	Not listed
		Innovance D-DIMER SUPPLEMENT	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Innovance D-DIMER BUFFER	Not listed
		Innovance D-DIMER CALIBRATOR	Not listed
		Innovance D-DIMER DILUENT	Not listed
		Innovance D-DIMER REAGENT	Not listed
		Innovance D-DIMER SUPPLEMENT	Not listed

Section 16. Other information

History

Date of issue/Date of revision : 1/22/2016.

Version : 1.04

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.**