



SAFETY DATA SHEET

INNOVANCE® D-Dimer

Section 1. Identification

Product identifier : INNOVANCE® D-Dimer
Product code : OPBP03, 10873850; OPBP07, 10873851; OPBP09, 10873852; OPBP11, 10873853
Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Manufactured/supplied : Sysmex Americas
577 Aptakistic RD
Lincolnshire, IL 60069
Company Phone Number: (224) 543-9500

Emergency telephone number ChemTel Inc.
1-800-255-3924 (North America)
1-813-248-0585 (International)

Section 2. Hazards identification

OSHA/HCS status	: INNOVANCE® D-Dimer Buffer	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.
	INNOVANCE® D-Dimer 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 and other users of this product.
	INNOVANCE® D-Dimer Sample Diluent	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	INNOVANCE® D-Dimer Reagent	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	INNOVANCE® D-Dimer Supplementary 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.
Classification of the substance or mixture	: INNOVANCE® D-Dimer Sample Diluent TOXIC TO REPRODUCTION	Category 1B
	INNOVANCE® D-Dimer Reagent SKIN IRRITATION SERIOUS EYE DAMAGE TOXIC TO REPRODUCTION	Category 2 Category 1 Category 1B
Additional information	: Potentially biohazardous material.	

Section 2. Hazards identification

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

GHS label elements

Hazard pictograms



Signal word

: INNOVANCE® D-Dimer Buffer No signal word.
 INNOVANCE® D-Dimer Calibrator No signal word.
 INNOVANCE® D-Dimer Sample Diluent Danger
 INNOVANCE® D-Dimer Reagent Danger
 INNOVANCE® D-Dimer Supplementary Reagent No signal word.

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 Sample Diluent H360 - May damage fertility or the unborn child.
 INNOVANCE® D-Dimer Reagent H315 - Causes skin irritation.
 H318 - Causes serious eye damage.
 H360 - May damage fertility or the unborn child.
 INNOVANCE® D-Dimer Supplementary Reagent 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 Sample Diluent P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves, protective clothing and eye or face protection.
 INNOVANCE® D-Dimer Reagent P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves, protective clothing and eye or face protection.
 P264 - Wash thoroughly after handling.
 INNOVANCE® D-Dimer Supplementary Reagent Not applicable.

Response

: INNOVANCE® D-Dimer Buffer Not applicable.
 INNOVANCE® D-Dimer Calibrator Not applicable.
 INNOVANCE® D-Dimer Sample Diluent P308 + P313 - IF exposed or concerned: Get medical advice or attention.
 INNOVANCE® D-Dimer Reagent P308 + P313 - IF exposed or concerned: Get medical advice or attention.
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
 P332 + P313 - If skin irritation occurs: Get medical advice or attention.
 P362 + P364 - Take off contaminated clothing and wash it before reuse.
 P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Section 2. Hazards identification

	INNOVANCE® D-Dimer Supplementary Reagent	Not applicable.
Storage	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not applicable. Not applicable. P405 - Store locked up. P405 - Store locked up. Not applicable.
Disposal	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent	Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	INNOVANCE® D-Dimer Supplementary Reagent : INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not applicable. None known. None known. None known. None known. None known.
Hazards not otherwise classified	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	None known. None known. None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Mixture Mixture Mixture Mixture Mixture
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Ingredient name	%	CAS number
INNOVANCE® D-Dimer Buffer		
sodium azide	≤0.1	26628-22-8
INNOVANCE® D-Dimer Calibrator		
sodium azide	<1	26628-22-8
INNOVANCE® D-Dimer Sample Diluent		
imidazole	<1	288-32-4
sodium azide	≤0.1	26628-22-8
INNOVANCE® D-Dimer Reagent		
imidazole	<5	288-32-4
Gentamicin, sulfate (salt)	<0.1	1405-41-0
INNOVANCE® D-Dimer Supplementary Reagent		

Section 3. Composition/information on ingredients

sodium azide	≤0.1	26628-22-8
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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 Sample Diluent	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.
	INNOVANCE® D-Dimer Reagent	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
	INNOVANCE® D-Dimer Supplementary 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.
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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	INNOVANCE® D-Dimer Sample Diluent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	INNOVANCE® D-Dimer Reagent	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a

Section 4. First aid measures

		position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: INNOVANCE® D-Dimer Supplementary 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 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 Sample Diluent	Flush contaminated skin with plenty of 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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	INNOVANCE® D-Dimer Reagent	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: INNOVANCE® D-Dimer Supplementary Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	: INNOVANCE® D-Dimer Buffer	Wash out mouth with water. 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. 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 Sample Diluent	Wash out mouth with water. Remove

Section 4. First aid measures

INNOVANCE® D-Dimer Reagent

dentures if any. 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. 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.

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

INNOVANCE® D-Dimer Supplementary Reagent

Wash out mouth with water. 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 Sample Diluent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Reagent	Causes serious eye damage.
	INNOVANCE® D-Dimer Supplementary Reagent	No known significant effects or critical hazards.
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 Sample Diluent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Reagent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Supplementary Reagent	No known significant effects or critical hazards.

Section 4. First aid measures

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 Sample Diluent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Reagent	Causes skin irritation.
	INNOVANCE® D-Dimer Supplementary Reagent	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 Sample Diluent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Reagent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Supplementary Reagent	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 Sample Diluent	No specific data.
	INNOVANCE® D-Dimer Reagent	Adverse symptoms may include the following: pain watering redness
	INNOVANCE® D-Dimer Supplementary Reagent	No specific data.
Inhalation	: INNOVANCE® D-Dimer Buffer	No specific data.
	INNOVANCE® D-Dimer Calibrator	No specific data.
	INNOVANCE® D-Dimer Sample Diluent	No specific data.
	INNOVANCE® D-Dimer Reagent	No specific data.
	INNOVANCE® D-Dimer Supplementary Reagent	No specific data.
Skin contact	: INNOVANCE® D-Dimer Buffer	No specific data.
	INNOVANCE® D-Dimer Calibrator	No specific data.
	INNOVANCE® D-Dimer Sample Diluent	No specific data.
	INNOVANCE® D-Dimer Reagent	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	INNOVANCE® D-Dimer Supplementary Reagent	No specific data.
Ingestion	: INNOVANCE® D-Dimer Buffer	No specific data.
	INNOVANCE® D-Dimer Calibrator	No specific data.
	INNOVANCE® D-Dimer Sample Diluent	No specific data.
	INNOVANCE® D-Dimer Reagent	Adverse symptoms may include the following: stomach pains
	INNOVANCE® D-Dimer Supplementary Reagent	No specific data.

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

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam or dry chemical.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
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. 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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
INNOVANCE® D-Dimer Buffer sodium azide	ACGIH TLV (United States, 1/2021). C: 0.29 mg/m ³ , (as Sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (as NaN3) NIOSH REL (United States, 10/2020). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (NaN3)
INNOVANCE® D-Dimer Calibrator sodium azide	ACGIH TLV (United States, 1/2021). C: 0.29 mg/m ³ , (as Sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (as NaN3) NIOSH REL (United States, 10/2020). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (NaN3)
INNOVANCE® D-Dimer Sample Diluent sodium azide	ACGIH TLV (United States, 1/2021). C: 0.29 mg/m ³ , (as Sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (as NaN3) NIOSH REL (United States, 10/2020).

Section 8. Exposure controls/personal protection

INNOVANCE® D-Dimer Supplementary Reagent
sodium azide

Absorbed through skin.

CEIL: 0.1 ppm, (as HN3)
CEIL: 0.3 mg/m³, (NAN3)

ACGIH TLV (United States, 1/2021).

C: 0.29 mg/m³, (as Sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)

OSHA PEL 1989 (United States, 3/1989).

Absorbed through skin.

CEIL: 0.1 ppm, (as HN3)
CEIL: 0.3 mg/m³, (as NaN3)

NIOSH REL (United States, 10/2020).

Absorbed through skin.

CEIL: 0.1 ppm, (as HN3)
CEIL: 0.3 mg/m³, (NAN3)

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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

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

Respiratory protection : 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	: INNOVANCE® D-Dimer Buffer	Liquid.
	: INNOVANCE® D-Dimer Calibrator	Solid.
	: INNOVANCE® D-Dimer Sample Diluent	Liquid.
	: INNOVANCE® D-Dimer Reagent	Solid.
	: INNOVANCE® D-Dimer Supplementary Reagent	Liquid.

Section 9. Physical and chemical properties

Color	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Colorless. White to light yellow. Colorless. White. Colorless.
Odor	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not relevant/applicable due to nature of the product. Odorless. Not relevant/applicable due to nature of the product. Odorless. Odorless.
pH	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	7 Not applicable. 7 Not applicable. 7.1
Flash point	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	[Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.]
Flammability (solid, gas)	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
Relative density	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	1.017 Not available. 1.025 Not available. 1.026
Solubility(ies)	:	Not available.
Solubility in water	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not available. Not available. Not available. Not available. Not available.
Partition coefficient: n-octanol/water	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.

Section 9. Physical and chemical properties

Auto-ignition temperature	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not available. Not relevant/applicable due to nature of the product. Not available. Not relevant/applicable due to nature of the product. Not available.
Viscosity	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
<u>Aerosol product</u>		
Type of aerosol	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

Section 10. Stability and reactivity

Reactivity	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	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. 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. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	The product is stable. The product is stable. The product is stable. 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	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	No specific data. No specific data. No specific data. No specific data. No specific data.
Incompatible materials	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	No specific data. No specific data. No specific data. No specific data. No specific data.

Section 10. Stability and reactivity

Hazardous decomposition products	: INNOVANCE® D-Dimer Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	INNOVANCE® D-Dimer Calibrator	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	INNOVANCE® D-Dimer Sample Diluent	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	INNOVANCE® D-Dimer Reagent	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	INNOVANCE® D-Dimer Supplementary Reagent	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
INNOVANCE® D-Dimer Buffer sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
INNOVANCE® D-Dimer Calibrator sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
INNOVANCE® D-Dimer Sample Diluent imidazole sodium azide	LD50 Oral	Rat	220 mg/kg	-
	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
INNOVANCE® D-Dimer Reagent imidazole Gentamicin, sulfate (salt)	LD50 Oral	Rat	220 mg/kg	-
	LD50 Oral	Rat	>5 g/kg	-
INNOVANCE® D-Dimer Supplementary Reagent sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-

Conclusion/Summary	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not available. Not available. Not available. Not available. Not available.
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Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
INNOVANCE® D-Dimer Sample Diluent imidazole	Eyes - Moderate irritant	Rabbit	-	168 hours 105 mg	-
INNOVANCE® D-Dimer Reagent imidazole	Eyes - Moderate irritant	Rabbit	-	168 hours 105 mg	-

Conclusion/Summary

Skin	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not available. Not available. Not available. Not available. Not available.
Eyes	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not available. Not available. Not available. Not available. Not available.
Respiratory	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not available. Not available. Not available. Not available. Not available.

Sensitization

Not available.

Conclusion/Summary

Skin	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not available. Not available. Not available. Not available. Not available.
Respiratory	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not available. Not available. Not available. Not available. Not available.

Mutagenicity

Not available.

Conclusion/Summary	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not available. Not available. Not available. Not available. Not available.
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Carcinogenicity

Not available.

Conclusion/Summary	: INNOVANCE® D-Dimer Buffer INNOVANCE® D-Dimer Calibrator INNOVANCE® D-Dimer Sample Diluent INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Supplementary Reagent	Not available. Not available. Not available. Not available. Not available.
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Section 11. Toxicological information

Reproductive toxicity

Not available.

Conclusion/Summary	: INNOVANCE® D-Dimer Buffer	Not available.
	INNOVANCE® D-Dimer Calibrator	Not available.
	INNOVANCE® D-Dimer Sample Diluent	Not available.
	INNOVANCE® D-Dimer Reagent	Not available.
	INNOVANCE® D-Dimer Supplementary Reagent	Not available.

Teratogenicity

Not available.

Conclusion/Summary	: INNOVANCE® D-Dimer Buffer	Not available.
	INNOVANCE® D-Dimer Calibrator	Not available.
	INNOVANCE® D-Dimer Sample Diluent	Not available.
	INNOVANCE® D-Dimer Reagent	Not available.
	INNOVANCE® D-Dimer Supplementary Reagent	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	: INNOVANCE® D-Dimer Buffer	Not available.
	INNOVANCE® D-Dimer Calibrator	Not available.
	INNOVANCE® D-Dimer Sample Diluent	Not available.
	INNOVANCE® D-Dimer Reagent	Not available.
	INNOVANCE® D-Dimer Supplementary Reagent	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 Sample Diluent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Reagent	Causes serious eye damage.
	INNOVANCE® D-Dimer Supplementary Reagent	No known significant effects or critical hazards.
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 Sample Diluent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Reagent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Supplementary Reagent	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 Sample Diluent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Reagent	Causes skin irritation.
	INNOVANCE® D-Dimer Supplementary Reagent	No known significant effects or critical hazards.

Section 11. Toxicological information

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 Sample Diluent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Reagent	No known significant effects or critical hazards.
	INNOVANCE® D-Dimer Supplementary Reagent	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 Sample Diluent	No specific data.
	INNOVANCE® D-Dimer Reagent	Adverse symptoms may include the following: pain watering redness
	INNOVANCE® D-Dimer Supplementary Reagent	No specific data.
Inhalation	: INNOVANCE® D-Dimer Buffer	No specific data.
	INNOVANCE® D-Dimer Calibrator	No specific data.
	INNOVANCE® D-Dimer Sample Diluent	No specific data.
	INNOVANCE® D-Dimer Reagent	No specific data.
	INNOVANCE® D-Dimer Supplementary Reagent	No specific data.
Skin contact	: INNOVANCE® D-Dimer Buffer	No specific data.
	INNOVANCE® D-Dimer Calibrator	No specific data.
	INNOVANCE® D-Dimer Sample Diluent	No specific data.
	INNOVANCE® D-Dimer Reagent	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	INNOVANCE® D-Dimer Supplementary Reagent	No specific data.
Ingestion	: INNOVANCE® D-Dimer Buffer	No specific data.
	INNOVANCE® D-Dimer Calibrator	No specific data.
	INNOVANCE® D-Dimer Sample Diluent	No specific data.
	INNOVANCE® D-Dimer Reagent	Adverse symptoms may include the following: stomach pains
	INNOVANCE® D-Dimer Supplementary Reagent	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 Sample Diluent	Not available.
	INNOVANCE® D-Dimer Reagent	Not available.
	INNOVANCE® D-Dimer Supplementary Reagent	Not available.
Potential delayed effects	: INNOVANCE® D-Dimer Buffer	Not available.
	INNOVANCE® D-Dimer Calibrator	Not available.
	INNOVANCE® D-Dimer Sample Diluent	Not available.
	INNOVANCE® D-Dimer Reagent	Not available.
	INNOVANCE® D-Dimer Supplementary Reagent	Not available.

Long term exposure

Section 11. Toxicological information

Potential immediate effects : INNOVANCE® D-Dimer Buffer Not available.
 INNOVANCE® D-Dimer Calibrator Not available.
 INNOVANCE® D-Dimer Sample Diluent Not available.
 INNOVANCE® D-Dimer Reagent Not available.
 INNOVANCE® D-Dimer Supplementary Reagent Not available.

Potential delayed effects : INNOVANCE® D-Dimer Buffer Not available.
 INNOVANCE® D-Dimer Calibrator Not available.
 INNOVANCE® D-Dimer Sample Diluent Not available.
 INNOVANCE® D-Dimer Reagent Not available.
 INNOVANCE® D-Dimer Supplementary Reagent 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 Sample Diluent
 Not available. INNOVANCE® D-Dimer Reagent
 Not available. INNOVANCE® D-Dimer Supplementary Reagent

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
INNOVANCE® D-Dimer Buffer sodium azide	27	20	N/A	N/A	N/A
INNOVANCE® D-Dimer Calibrator sodium azide	27	20	N/A	N/A	N/A
INNOVANCE® D-Dimer Sample Diluent imidazole sodium azide	500 27	N/A 20	N/A N/A	N/A N/A	N/A N/A
INNOVANCE® D-Dimer Reagent INNOVANCE® D-Dimer Reagent imidazole	10398.8 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A
INNOVANCE® D-Dimer Supplementary Reagent sodium azide	27	20	N/A	N/A	N/A

Interactive effects : INNOVANCE® D-Dimer Buffer Not available.
 INNOVANCE® D-Dimer Calibrator Not available.
 INNOVANCE® D-Dimer Sample Diluent Not available.
 INNOVANCE® D-Dimer Reagent Not available.
 INNOVANCE® D-Dimer Supplementary Reagent Not available.

Other information : INNOVANCE® D-Dimer Buffer Not available.
 INNOVANCE® D-Dimer Calibrator Not available.
 INNOVANCE® D-Dimer Sample Diluent Not available.
 INNOVANCE® D-Dimer Reagent Not available.
 INNOVANCE® D-Dimer Supplementary Reagent Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
INNOVANCE® D-Dimer Buffer sodium azide	Acute EC50 9200 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
INNOVANCE® D-Dimer Calibrator sodium azide	Acute EC50 9200 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
INNOVANCE® D-Dimer Sample Diluent sodium azide	Acute EC50 9200 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
INNOVANCE® D-Dimer Reagent Gentamicin, sulfate (salt)	Acute EC50 21.2 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >955 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
INNOVANCE® D-Dimer Supplementary Reagent sodium azide	Acute EC50 9200 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours

Conclusion/Summary : INNOVANCE® D-Dimer Buffer Not available.
 INNOVANCE® D-Dimer Calibrator Not available.
 INNOVANCE® D-Dimer Sample Diluent Not available.
 INNOVANCE® D-Dimer Reagent Not available.
 INNOVANCE® D-Dimer Supplementary Reagent Not available.

Persistence and degradability

Conclusion/Summary : INNOVANCE® D-Dimer Buffer Not available.
 INNOVANCE® D-Dimer Calibrator Not available.
 INNOVANCE® D-Dimer Sample Diluent Not available.
 INNOVANCE® D-Dimer Reagent Not available.
 INNOVANCE® D-Dimer Supplementary Reagent Not available.

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
INNOVANCE® D-Dimer Sample Diluent imidazole	-0.02	-	low
INNOVANCE® D-Dimer Reagent imidazole	-0.02	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc})	: INNOVANCE® D-Dimer Buffer	Not available.
	: INNOVANCE® D-Dimer Calibrator	Not available.
	: INNOVANCE® D-Dimer Sample Diluent	Not available.
	: INNOVANCE® D-Dimer Reagent	Not available.
	: INNOVANCE® D-Dimer Supplementary Reagent	Not available.
Mobility	: INNOVANCE® D-Dimer Buffer	Not available.
	: INNOVANCE® D-Dimer Calibrator	Not available.
	: INNOVANCE® D-Dimer Sample Diluent	Not available.
	: INNOVANCE® D-Dimer Reagent	Not available.
	: INNOVANCE® D-Dimer Supplementary Reagent	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.

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 Sample Diluent	Not regulated.
	INNOVANCE® D-Dimer Reagent	Not regulated.
	INNOVANCE® D-Dimer Supplementary Reagent	Not regulated.
UN proper shipping name	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-
Transport hazard class(es)	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-

Section 14. Transport information

Packing group	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-
Environmental hazards	INNOVANCE® D-Dimer Buffer	No.
	INNOVANCE® D-Dimer Calibrator	No.
	INNOVANCE® D-Dimer Sample Diluent	No.
	INNOVANCE® D-Dimer Reagent	No.
	INNOVANCE® D-Dimer Supplementary Reagent	No.
Additional information	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-

TDG Classification

UN number	INNOVANCE® D-Dimer Buffer	Not regulated.
	INNOVANCE® D-Dimer Calibrator	Not regulated.
	INNOVANCE® D-Dimer Sample Diluent	Not regulated.
	INNOVANCE® D-Dimer Reagent	Not regulated.
	INNOVANCE® D-Dimer Supplementary Reagent	Not regulated.
UN proper shipping name	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-
Transport hazard class(es)	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-

Packing group	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-
Environmental hazards	INNOVANCE® D-Dimer Buffer	No.
	INNOVANCE® D-Dimer Calibrator	No.
	INNOVANCE® D-Dimer Sample Diluent	No.
	INNOVANCE® D-Dimer Reagent	No.
	INNOVANCE® D-Dimer Supplementary Reagent	No.
Additional information	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-

ADR/RID

UN number	INNOVANCE® D-Dimer Buffer	Not regulated.
	INNOVANCE® D-Dimer Calibrator	Not regulated.
	INNOVANCE® D-Dimer Sample Diluent	Not regulated.
	INNOVANCE® D-Dimer Reagent	Not regulated.
	INNOVANCE® D-Dimer Supplementary Reagent	Not regulated.

Section 14. Transport information

UN proper shipping name	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-
Transport hazard class(es)	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-
Packing group	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-
Environmental hazards	INNOVANCE® D-Dimer Buffer	No.
	INNOVANCE® D-Dimer Calibrator	No.
	INNOVANCE® D-Dimer Sample Diluent	No.
	INNOVANCE® D-Dimer Reagent	No.
	INNOVANCE® D-Dimer Supplementary Reagent	No.
Additional information	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-

IMDG

UN number	INNOVANCE® D-Dimer Buffer	Not regulated.
	INNOVANCE® D-Dimer Calibrator	Not regulated.
	INNOVANCE® D-Dimer Sample Diluent	Not regulated.
	INNOVANCE® D-Dimer Reagent	Not regulated.
	INNOVANCE® D-Dimer Supplementary Reagent	Not regulated.
UN proper shipping name	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-
Transport hazard class(es)	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-
Packing group	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-
Environmental hazards	INNOVANCE® D-Dimer Buffer	No.
	INNOVANCE® D-Dimer Calibrator	No.
	INNOVANCE® D-Dimer Sample Diluent	No.
	INNOVANCE® D-Dimer Reagent	No.
	INNOVANCE® D-Dimer Supplementary Reagent	No.

Section 14. Transport information

Additional information	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-

IATA

UN number	INNOVANCE® D-Dimer Buffer	Not regulated.
	INNOVANCE® D-Dimer Calibrator	Not regulated.
	INNOVANCE® D-Dimer Sample Diluent	Not regulated.
	INNOVANCE® D-Dimer Reagent	Not regulated.
	INNOVANCE® D-Dimer Supplementary Reagent	Not regulated.

UN proper shipping name	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-

Transport hazard class(es)	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-

Packing group	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-

Environmental hazards	INNOVANCE® D-Dimer Buffer	No.
	INNOVANCE® D-Dimer Calibrator	No.
	INNOVANCE® D-Dimer Sample Diluent	No.
	INNOVANCE® D-Dimer Reagent	No.
	INNOVANCE® D-Dimer Supplementary Reagent	No.

Additional information	INNOVANCE® D-Dimer Buffer	-
	INNOVANCE® D-Dimer Calibrator	-
	INNOVANCE® D-Dimer Sample Diluent	-
	INNOVANCE® D-Dimer Reagent	-
	INNOVANCE® D-Dimer Supplementary Reagent	-

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 Sample 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:

Section 14. Transport information

INNOVANCE® D-Dimer Supplementary Reagent

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 IMO instruments : Not applicable.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 311: disodium hydrogenorthophosphate

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

DEA List I Chemicals : Not listed

(Precursor Chemicals)

DEA List II Chemicals : Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
INNOVANCE® D-Dimer Buffer sodium azide	0.0866	Yes.	500	-	1000	-
INNOVANCE® D-Dimer Calibrator sodium azide	0.811	Yes.	500	-	1000	-
INNOVANCE® D-Dimer Sample Diluent sodium azide	0.0878	Yes.	500	-	1000	-
INNOVANCE® D-Dimer Supplementary Reagent sodium azide	0.0925	Yes.	500	-	1000	-

SARA 304 RQ : 1044460.1 lbs / 474184.9 kg

SARA 311/312

Classification : SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
TOXIC TO REPRODUCTION - Category 1B

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
INNOVANCE® D-Dimer Buffer sodium azide	≤0.1	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 1
INNOVANCE® D-Dimer Calibrator sodium azide	<1	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 1
INNOVANCE® D-Dimer Sample Diluent imidazole	<1	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1B
sodium azide	≤0.1	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 1
INNOVANCE® D-Dimer Reagent imidazole	<5	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1B
Gentamicin, sulfate (salt)	<0.1	RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2
INNOVANCE® D-Dimer Supplementary Reagent sodium azide	≤0.1	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 1

State regulations

- Massachusetts** : The following components are listed: SUCROSE DUST
- New York** : None of the components are listed.
- New Jersey** : None of the components are listed.
- Pennsylvania** : The following components are listed: .ALPHA.-D-GLUCOPYRANOSIDE, .BETA.-D-FRUCTOFURANOSYL

California Prop. 65

⚠ WARNING: This product can expose you to Gentamicin, sulfate (salt), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
INNOVANCE® D-Dimer Reagent Gentamicin, sulfate (salt)	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Section 16. Other information

History

Date of issue/Date of revision : 3/19/2024

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 N/A = Not available SGG = Segregation Group

▣ Indicates information that has changed from previously issued version.