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

SAFETY DATA SHEET



Dade® Fibrinogen Determination Reagents

Section 1. Identif	fication	
Product identifier	: Dade® Fibrinogen Determination Re	agents
Product code	: B4233-15SY, 10873835; B4233-15S	SYJ, 10465682; B4233-17SY, 10873937
Product type	: Liquid.	
Relevant identified uses of	f the substance or mixture and uses adv	ised against
Not applicable.		
Manufactured/supplied	: Sysmex Americas 577 Aptakisic RD Lincolnshire, IL 60069 Company Phone Number: (224) 543	3-9500
Emergency telephone number	ChemTel Inc. 1-800-255-3924 (North America) 1-813-248-0585 (International)	
Section 2. Hazar	ds identification	
OSHA/HCS status	: Dade® Thrombin Reagent	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Dade® Fibrinogen Standard	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
	Dade® Owren's Veronal 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
Classification of the substance or mixture	: Dade® Thrombin Reagent RESPIRATORY SENSITIZATION	Category 1
Additional information	: Potentially biohazardous material.	Category
	Not available.	
GHS label elements		
Hazard pictograms		
Signal word	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Danger No signal word. No signal word.

Date of issue/Date of revision

: 3/19/2024 Date of previous issue

: No previous validation Version : 1

Section 2. Hazards identification

Hazard statements	: Dade® Thrombin Reagent	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Dade® Fibrinogen Standard	No known significant effects or critical hazards.
	Dade® Owren's Veronal Buffer	No known significant effects or critical hazards.
Precautionary statemen	<u>ts</u>	
Prevention	: Dade® Thrombin Reagent	P284 - Wear respiratory protection. P261 - Avoid breathing dust.
	Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not applicable. Not applicable.
Response	: Dade® Thrombin Reagent	P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
	Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not applicable. Not applicable.
Storage	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not applicable. Not applicable. Not applicable.
Disposal	: Dade® Thrombin Reagent	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not applicable. Not applicable.
Supplemental label elements	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	None known. None known. None known.
Hazards not otherwise classified	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Dade® Thrombin Reagent	Mixture	
Cubotanoo, mixturo	Dade® Fibrinogen Standard	Mixture	
	Dade® Owren's Veronal Buffer	Mixture	

Ingredient name	%	CAS number
Dade® Thrombin Reagent		
Thrombin	≤5	9002-04-4

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	<u>/ first aid measures</u>	
Eye contact	: Dade® Thrombin Reagent	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.
	Dade® Fibrinogen Standard	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
Date of issue/Date of revision	: 3/19/2024 Date of previous issue	: No previous validation Version : 1 2/15

Section 4. First aid measures

	Dade® Owren's Veronal Buffer	irritation occurs. 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	: Dade® Thrombin Reagent	Remove victim to fresh air and keep at rest in a 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. Get medical attention. If necessary, call a poison center or physician. 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. In the event of any complaints or symptoms, avoid further exposure.
	Dade® Fibrinogen Standard	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.
	Dade® Owren's Veronal Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Dade® Thrombin Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Dade® Fibrinogen Standard	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Dade® Owren's Veronal Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Dade® Thrombin Reagent	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. Get medical attention if adverse health effects persist or are severe. Never give anything
Date of issue/Date of revision	: 3/19/2024 Date of previous issue	: No previous validation Version : 1 3/15

Section 4. First aid measures

	Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	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. 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. 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.
	oms/effects, acute and delayed	
Potential acute health		No known aignifiaent offacts or critical
Eye contact	: Dade® Thrombin Reagent Dade® Fibrinogen Standard	No known significant effects or critical hazards. No known significant effects or critical
	Dade® Owren's Veronal Buffer	hazards. No known significant effects or critical hazards.
Inhalation	: Dade® Thrombin Reagent	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No known significant effects or critical hazards. No known significant effects or critical
Skin contact	: Dade® Thrombin Reagent	hazards. No known significant effects or critical
	Dade® Fibrinogen Standard	hazards. No known significant effects or critical hazards.
	Dade® Owren's Veronal Buffer	No known significant effects or critical hazards.
Ingestion	: Dade® Thrombin Reagent	No known significant effects or critical hazards.
	Dade® Fibrinogen Standard	No known significant effects or critical hazards.
	Dade® Owren's Veronal Buffer	No known significant effects or critical hazards.
Over-exposure signs		
Eye contact	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No specific data. No specific data. No specific data.
Inhalation	: Dade® Thrombin Reagent Dade® Fibrinogen Standard	Adverse symptoms may include the following: wheezing and breathing difficulties asthma No specific data.
	Dade® Owren's Veronal Buffer	No specific data.
Skin contact	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No specific data. No specific data. No specific data.
Ingestion	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No specific data. No specific data. No specific data.

 Date of issue/Date of revision
 : 3/19/2024
 Date of previous issue
 : No previous validation
 Version
 : 1
 4/15

Section 4. First aid measures

Indication of immediate mee	dical 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.

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 sulfur 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

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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 co	ontainment 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.

Section 6. Accidental release measures

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

Section 7. Handling and storage

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

Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure lim</u> None.	<u>its</u>	
Appropriate engineering controls	: Use only with adequate ventilation. 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 measu	res	
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		
Date of issue/Date of revision	: 3/19/2024 Date of previous issue : No previous validation Version : 1 6/15	

6/15

Section 8. Exposure controls/personal protection

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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

 Dade® Thrombin Reagent	Solid.
Dade® Fibrinogen Standard	Solid.
Dade® Owren's Veronal Buffer Dade® Thrombin Reagent	Liquid.
Dade® Fibrinogen Standard	White.
	White
Dade® Fibrinogen Standard	Yellowish.
Dade® Owren's Veronal Buffer	Colorless.
: Dade® Thrombin Reagent	Odorless.
Dade® Fibrinogen Standard	Odorless.
Dade® Owren's Veronal Buffer	Odorless.
: Dade® Thrombin Reagent	Not applicable.
Dade® Fibrinogen Standard	Not applicable.
Dade® Owren's Veronal Buffer	7.35
: Dade® Thrombin Reagent	[Product does not sustain combustion.]
Dade® Fibrinogen Standard	[Product does not sustain combustion.]
Dade® Owren's Veronal Buffer	[Product does not sustain combustion.]
: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	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.
: Dade® Thrombin Reagent	Not available.
Dade® Fibrinogen Standard	Not available.
Dade® Owren's Veronal Buffer	1
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: Dade® Thrombin Reagent	Not available.
Dade® Fibrinogen Standard	Not available.
Dade® Owren's Veronal Buffer	Not available.
: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	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.
: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not available.
	 Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer Dade® Thrombin Reagent Dade® Owren's Veronal Buffer Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer Dade® Fibrinogen Standard

Section 9. Physical and chemical properties

Viscosity	: Dade® Thrombin Reagent	Not relevant/applicable due to nature of the product.
	Dade® Fibrinogen Standard	Not relevant/applicable due to nature of the product.
	Dade® Owren's Veronal Buffer	Not relevant/applicable due to nature of the product.
Aerosol product		
Type of aerosol	: Dade® Thrombin Reagent	Not applicable.
	Dade® Fibrinogen Standard	Not applicable.
	Dade® Owren's Veronal Buffer	Not applicable.

Section 10. Stability and reactivity

Reactivity	: Dade® Thrombin Reagent	No specific test data related to reactivity available for this product or its ingredients.
	Dade® Fibrinogen Standard	No specific test data related to reactivity available for this product or its ingredients.
	Dade® Owren's Veronal Buffer	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Dade® Thrombin Reagent	The product is stable.
	Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	The product is stable. The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and us	e, hazardous reactions will not occur.
Conditions to avoid	: Dade® Thrombin Reagent	No specific data.
	Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No specific data. No specific data.
Incompatible materials	: Dade® Thrombin Reagent	No specific data.
	Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No specific data. No specific data.
Hazardous decomposition products	: Dade® Thrombin Reagent	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Dade® Fibrinogen Standard	Under normal conditions of storage and use, hazardous decomposition products
	Dade® Owren's Veronal Buffer	should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicologic	al effects			
<u>Acute toxicity</u> Not available.				
Not available.				
Conclusion/Summary	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.		
Irritation/Corrosion				
Not available.				
Conclusion/Summary				
Skin	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.		
Date of issue/Date of revision	: 3/19/2024 Date of previous issue	: No previous validation	Version : 1	8/15

Section 11. Toxicological information

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Eyes	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Respiratory	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Sensitization Not available.		
Conclusion/Summary		
Skin	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Respiratory	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Mutagenicity Not available.		
Conclusion/Summary	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Carcinogenicity Not available.		
Conclusion/Summary	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Reproductive toxicity Not available.		
Conclusion/Summary	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Teratogenicity Not available.		
Conclusion/Summary	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Dade® Thrombin Reagent Thrombin	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer Not available. Not available. Not available.

Potential acute health effects

Section 11. Toxicological information

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Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No specific data. No specific data. No specific data.
Inhalation	: Dade® Thrombin Reagent	Adverse symptoms may include the following: wheezing and breathing difficulties asthma
	Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No specific data. No specific data.
Skin contact	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No specific data. No specific data. No specific data.
Ingestion	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No specific data. No specific data. No specific data.

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

<u>Short term exposure</u>		
Potential immediate effects	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Potential delayed effects	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
<u>Long term exposure</u>		
Potential immediate effects	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Potential delayed effects	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Potential chronic health ef	ffects	
Not available.		
Conclusion/Summary	: Not available. Not available. Not available.	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer
Date of issue/Date of revision	: 3/19/2024 Date of previous issue	: No previous validation Version : 1

10/15

Section 11. Toxicological information

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Interactive effects	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Other information	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.

Section 12. Ecological information

	5	
Toxicity		
Not available.		
Conclusion/Summary	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Persistence and degradabil	itv	
Conclusion/Summary	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Bioaccumulative potential Not available.		
<u>Mobility in soil</u>		
Soil/water partition coefficient (K _{oc})	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.
Mobility	: Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not available. Not available. Not available.

Section 13. Disposal considerations

Other adverse effects

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.

: No known significant effects or critical hazards.

Date of issue/Date of revision	: 3/19/2024	Date of previous issue	: No previous validation	Version : 1	11/15
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Section 14. Transport information

DOT Classification

	DOT Classification	
UN number	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not regulated. Not regulated. Not regulated.
UN proper shipping name	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	- - -
Transport hazard class(es)	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	- -
Packing group	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	
Environmental hazards	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No. No. No.
Additional information	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	- -
	TDG Classification	
UN number	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not regulated. Not regulated. Not regulated.
UN proper shipping name	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	- - -
Transport hazard class(es)	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	- -
Packing group	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	- -
Environmental hazards	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No. No. No.
Additional information	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	- -
	ADR/RID	
UN number	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not regulated. Not regulated. Not regulated.
UN proper shipping name	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	- - -

Section 14 Transport information L

Transport	Dade® Thrombin Reagent	-	
	Dade® Fibrinogen Standard	-	
	Dade® Owren's Veronal Buffer	-	
Packing group	Dade® Thrombin Reagent	_	
	Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	-	
Environmental hazards	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No. No. No.	
Additional information	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	-	
	IMDG		
UN number	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not regulated. Not regulated. Not regulated.	
UN proper shipping name	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	-	
Transport hazard class(es)	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer		
Packing group	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	- -	
Environmental hazards	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No. No. No.	
Additional information	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer		
	ΙΑΤΑ		
UN number	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	Not regulated. Not regulated. Not regulated.	
UN proper shipping name	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer		
Transport hazard class(es)	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer		
Packing group	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	- - -	
Environmental hazards	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer	No. No. No.	

Section 14. Transport information

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Additional information	Dade® Thrombin Reagent Dade® Fibrinogen Standard Dade® Owren's Veronal Buffer							
Special precautions for user : Dade® Thrombin 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.								
	Dade® Fibrinogen Standard	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.						
	Dade® Owren's Veronal 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.						

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312 Classification

: RESPIRATORY SENSITIZATION - Category 1

Composition/information on ingredients

Name	%	Classification
Dade® Thrombin Reagent	bin Reagent	
Thrombin	≤5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

State regulations

Date of issue/Date of revision	: 3/19/2024	Date of previous issue	: No previous validation	Version	:1	14/15
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Section 15. Regulatory information

Massachusetts	: None of the components are listed	•
New York	: None of the components are listed	-

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

California Prop. 65

WARNING: This product can expose you to barbital sodium, 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.

I	ngredient name	No significant risk level	Maximum acceptable dosage level
	Dade® Owren's Veronal Buffer parbital sodium	-	-

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 = International Air Transport Association IBC = 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.

15/15