SAFETY DATA SHEET



INNOVANCE® VWF Ac

Product identifier	: INNOVANCE® VWF Ac		
Product code	: OPHL03, 10873906		
	: Liquid.		
Product type	. Liquid.		
	the substance or mixture and uses advised	<u>d against</u>	
Not applicable.			
Manufactured/supplied	: Sysmex Americas 577 Aptakisic RD Lincolnshire, IL 60069 Company Phone Number: (224) 543-95	00	
Emergency telephone number	ChemTel Inc. 1-800-255-3924 (North America) 1-813-248-0585 (International)		
Section 2. Hazard	ds identification		
OSHA/HCS status	: INNOVANCE® VWF Ac Reagent I	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® VWF Ac Reagent II	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® VWF Ac Reagent III	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	: Not classified.		
Additional information	: Potentially biohazardous material.		
	Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.		
GHS label elements			
Signal word	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	No signal word. No signal word. No signal word.	

us issue : No previous validation

Section 2. Hazards identification

Hazard statements	: INNOVANCE® VWF Ac Reagent I	No known significant effects or critical hazards.
	INNOVANCE® VWF Ac Reagent II	No known significant effects or critical hazards.
	INNOVANCE® VWF Ac Reagent III	No known significant effects or critical hazards.
Precautionary statement	<u>'S</u>	
Prevention	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not applicable. Not applicable. Not applicable.
Response	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not applicable. Not applicable. Not applicable.
Storage	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not applicable. Not applicable. Not applicable.
Disposal	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not applicable. Not applicable. Not applicable.
Supplemental label elements	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	None known. None known. None known.
Hazards not otherwise classified	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: INNOVANCE® VWF Ac Reagent I	Mixture
	INNOVANCE® VWF Ac Reagent II	Mixture
	INNOVANCE® VWF Ac Reagent III	Mixture

Ingredient name	%	CAS number
INNOVANCE® VWF Ac Reagent II		
sodium azide	≤0.1	26628-22-8

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® VWF Ac Reagent I 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® VWF Ac Reagent II 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® VWF Ac Reagent III 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® VWF Ac		
Section 4. Fire	st aid measures	
Inhalation	: INNOVANCE® VWF Ac Reagent I	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® VWF Ac Reagent II	Remove victim to fresh air and keep at rest in a position comfortable for breathing Get medical attention if symptoms occur.
	INNOVANCE® VWF Ac Reagent III	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.
Skin contact	: INNOVANCE® VWF Ac Reagent I	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	INNOVANCE® VWF Ac Reagent II	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	INNOVANCE® VWF Ac Reagent III	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: INNOVANCE® VWF Ac Reagent I	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® VWF Ac Reagent II	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® VWF Ac Reagent III	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.
	toms/effects, acute and delayed	
Potential acute healt	th effects : INNOVANCE® VWF Ac Reagent I	No known significant offects or critical
Eye contact		No known significant effects or critical

Eye contact	: INNOVANCE® VWF Ac Reagent I	No known significant effects or critical hazards.
	INNOVANCE® VWF Ac Reagent II	No known significant effects or critical hazards.
	INNOVANCE® VWF Ac Reagent III	No known significant effects or critical hazards.

Section 4. First aid measures

Inhalation	: INNOVANCE® VWF Ac Reagent I	No known significant effects or critical
	-	hazards.
	INNOVANCE® VWF Ac Reagent II	No known significant effects or critical hazards.
	INNOVANCE® VWF Ac Reagent III	No known significant effects or critical hazards.
Skin contact	: INNOVANCE® VWF Ac Reagent I	No known significant effects or critical hazards.
	INNOVANCE® VWF Ac Reagent II	No known significant effects or critical hazards.
	INNOVANCE® VWF Ac Reagent III	No known significant effects or critical hazards.
Ingestion	: INNOVANCE® VWF Ac Reagent I	No known significant effects or critical hazards.
	INNOVANCE® VWF Ac Reagent II	No known significant effects or critical hazards.
	INNOVANCE® VWF Ac Reagent III	No known significant effects or critical hazards.
Over-exposure signs/s	symptoms	
Eye contact	: INNOVANCE® VWF Ac Reagent I	No specific data.
-	INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	No specific data. No specific data.
Inhalation	: INNOVANCE® VWF Ac Reagent I	No specific data.
	INNOVANCE® VWF Ac Reagent II	No specific data.
	INNOVANCE® VWF Ac Reagent III	No specific data.
Skin contact	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II	No specific data.
	INNOVANCE® VWF Ac Reagent II	No specific data. No specific data.
Ingestion	: INNOVANCE® VWF Ac Reagent I	No specific data.
	INNOVANCE® VWF Ac Reagent II	No specific data.
	INNOVANCE® VWF Ac Reagent III	No specific data.

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

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: In case of fire, use water spray (fog), foam or dry chemical.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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.
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Section 5. Fire-fighting measures

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency 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 : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up Small spill if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Control parameters

Precautions for safe handling	9
Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Ingredient name		Exposure limits
INNOVANCE® VWF Ac Reagent II		
sodium azide		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.
ate of issue/Date of revision : 3/19	0/2024 Date of previous issue	I : No previous validation Version : 1 5,

Section 8. Exposure controls/personal protection

CEIL: 0.1 ppm, (as HN3)	
CEIL: 0.3 mg/m ³ , (NAN3)	

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection 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	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Physical state	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II	Liquid. Liquid.
Color	INNOVANCE® VWF Ac Reagent III : INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II	Liquid. White. Colorless.
Odor	INNOVANCE® VWF Ac Reagent III : INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Clear. Odorless. Odorless. Odorless.
рН	: INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	8.25 7.1 8.25
Flash point	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	[Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.]
Flammability (solid, gas)	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
	INNOVANCE® VWF Ac Reagent III	Not relevant/applicable due to nature of the product.
Relative density	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	1.06 1 1.02
Date of issue/Date of revision	: 3/19/2024 Date of previous issue	: No previous validation Version : 1 6/15

Section 9. Physical and chemical properties

:

Solubility(ies)

Not available.

Solubility in water	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not available. Not available. Not available.
Partition coefficient: n- octanol/water	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	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
Auto-ignition temperature	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	the product. Not available. Not available. Not available.
Viscosity	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	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.
Aerosol product		
Type of aerosol	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not applicable. Not applicable. Not applicable.

Section 10. Stability and reactivity

Reactivity	: INNOVANCE® VWF Ac Reagent I	No specific test data related to reactivity available for this product or its ingredients.
	INNOVANCE® VWF Ac Reagent II	No specific test data related to reactivity available for this product or its ingredients.
	INNOVANCE® VWF Ac Reagent III	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: INNOVANCE® VWF Ac Reagent I	The product is stable.
	INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	The product is stable. The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use	e, hazardous reactions will not occur.
Conditions to avoid	: INNOVANCE® VWF Ac Reagent I	No specific data.
	INNOVANCE® VWF Ac Reagent II	No specific data.
	INNOVANCE® VWF Ac Reagent III	No specific data.
Incompatible materials	: INNOVANCE® VWF Ac Reagent I	No specific data.
•••••	INNOVANCE® VWF Ac Reagent II	No specific data.
	INNOVANCE® VWF Ac Reagent III	No specific data.
Hazardous decomposition products	: INNOVANCE® VWF Ac Reagent I	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	INNOVANCE® VWF Ac Reagent II	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	INNOVANCE® VWF Ac Reagent III	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® VWF Ac Reagent II				
sodium azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	-
Conclusion/Summary	: INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re	agent II No	ot available. ot available. ot available.	
Irritation/Corrosion		0		
Not available.				
Conclusion/Summary				
Skin	: INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re	agent II No	ot available. ot available. ot available.	
Eyes	: INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re	agent II No	ot available. ot available. ot available.	
Respiratory	: INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re	agent I No agent II No	ot available. ot available. ot available.	
<u>Sensitization</u> Not available.		5		
Conclusion/Summary				
Skin	: INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re	agent II No	ot available. ot available. ot available.	
Respiratory	: INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re	agent I No agent II No	ot available. ot available. ot available.	
<u>Mutagenicity</u> Not available.				
Conclusion/Summary	: INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re	agent II No	ot available. ot available. ot available.	
Carcinogenicity Not available.				
Conclusion/Summary	: INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re	agent II No	ot available. ot available. ot available.	
Reproductive toxicity Not available.				
Conclusion/Summary	: INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re	agent II No	ot available. ot available. ot available.	
Teratogenicity Not available.		-		
Conclusion/Summary	: INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re INNOVANCE® VWF Ac Re	agent II No	ot available. ot available. ot available.	
Specific target organ toxici Not available.				
Specific target organ toxici	<u>ty (repeated exposure)</u>			
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Section 11. Toxicological information

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	NOVANCE® VWF Ac Reagent INot available.NOVANCE® VWF Ac Reagent IINot available.NOVANCE® VWF Ac Reagent IIINot available.	
Potential acute health effects		
Eye contact	NOVANCE® VWF Ac Reagent I No known signi hazards.	ficant effects or critical
	NOVANCE® VWF Ac Reagent II No known signi hazards.	ficant effects or critical
	NOVANCE® VWF Ac Reagent III No known signi hazards.	ficant effects or critical
Inhalation	NOVANCE® VWF Ac Reagent I No known signi hazards.	ficant effects or critical
	NOVANCE® VWF Ac Reagent II No known signi hazards.	ficant effects or critical
	NOVANCE® VWF Ac Reagent III No known signi hazards.	ficant effects or critical
Skin contact	NOVANCE® VWF Ac Reagent I No known signi hazards.	ficant effects or critical
	NOVANCE® VWF Ac Reagent II No known signi hazards.	ficant effects or critical
	NOVANCE® VWF Ac Reagent III No known signi hazards.	ficant effects or critical
Ingestion	NOVANCE® VWF Ac Reagent I No known signi hazards.	ficant effects or critical
	NOVANCE® VWF Ac Reagent II No known signi hazards.	ficant effects or critical
	NOVANCE® VWF Ac Reagent III No known signi hazards.	ficant effects or critical

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	No specific data. No specific data. No specific data.
Inhalation	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	No specific data. No specific data. No specific data.
Skin contact	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	No specific data. No specific data. No specific data.
Ingestion	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	No specific data. No specific data. No specific data.

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

: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not available. Not available. Not available.
: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not available. Not available. Not available.
: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not available. Not available. Not available.
	 INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent I

Section 11. Toxicological information

Potential delayed effects	INN	IOVANCE® VWF Ac Reagent I IOVANCE® VWF Ac Reagent II IOVANCE® VWF Ac Reagent III	Not available. Not available. Not available.
Potential chronic health eff	<u>cts</u>		
Not available.			
Conclusion/Summary	Not	available. available. available.	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III
General	: No	known significant effects or critical hazar	ds.
Carcinogenicity	: No	known significant effects or critical hazar	ds.
Mutagenicity	: No	known significant effects or critical hazar	ds.
Reproductive toxicity	: No	known significant effects or critical hazar	ds.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name INNOVANCE® VWF Ac Reagent II sodium azide		kg)	Dermal (mg/kg) 20	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l) N/A	Inhalation (dusts and mists) (mg/ I) N/A
				N/A		
Interactive effects	: INNOVANCE® VWF INNOVANCE® VWF INNOVANCE® VWF	Ac Reagent	II N	ot available. ot available. ot available.		

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
INNOVANCE® VWF Ac			
Reagent II			
sodium azide	Acute EC50 9200 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours
Conclusion/Summary	: INNOVANCE® VWF Ac Reagent I	Not available.	•
2	INNOVANCE® VWF Ac Reagent II	Not available.	
	INNOVANCE® VWF Ac Reagent III	Not available.	

Persistence and degradability

Conclusion/Summary	: INNOVANCE® VWF Ac Reagent I	Not available.
	INNOVANCE® VWF Ac Reagent II	Not available.
	INNOVANCE® VWF Ac Reagent III	Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Date of issue/Date of revision

Section 12. Ecological information

Soil/water partition coefficient (K _{oc})	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not available. Not available. Not available.
Mobility	: INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not available. Not available. Not available.

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

Section 13. Disposal considerations

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

Section 14. Transport information

DOT Classification

UN number	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not regulated. Not regulated. Not regulated.
UN proper shipping name	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	- -
Transport hazard class(es)	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	-
Packing group	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	-
Environmental hazards	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	No. No. No.
Additional information	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	-
	TDG Classification	
UN number	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not regulated. Not regulated. Not regulated.
UN proper shipping name	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	- -

Section 14. Transport information

Section 14	. Transport information	
Transport	INNOVANCE® VWF Ac Reagent I	-
hazard class(es)	INNOVANCE® VWF Ac Reagent II	-
	INNOVANCE® VWF Ac Reagent III	-
Packing group	INNOVANCE® VWF Ac Reagent I	<u>.</u>
r dennig group	INNOVANCE® VWF Ac Reagent II	-
	INNOVANCE® VWF Ac Reagent III	-
Environmental	INNOVANCE® VWF Ac Reagent I	No.
hazards	INNOVANCE® VWF Ac Reagent II	No.
	INNOVANCE® VWF Ac Reagent III	No.
Additional	INNOVANCE® VWF Ac Reagent I	-
information	INNOVANCE® VWF Ac Reagent II	-
	INNOVANCE® VWF Ac Reagent III	-
	ADR/RID	
UN number	INNOVANCE® VWF Ac Reagent I	Not regulated.
	INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	Not regulated.
	-	Not regulated.
UN proper	INNOVANCE® VWF Ac Reagent I	-
shipping name	INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	-
	-	-
Transport	INNOVANCE® VWF Ac Reagent I	-
hazard class(es)	INNOVANCE® VWF Ac Reagent II INNOVANCE® VWF Ac Reagent III	-
	INNOVANOES WIT AS Reagent III	
Packing group	INNOVANCE® VWF Ac Reagent I	-
	INNOVANCE® VWF Ac Reagent II	-
	INNOVANCE® VWF Ac Reagent III	-
Environmental	INNOVANCE® VWF Ac Reagent I	No.
hazards	INNOVANCE® VWF Ac Reagent II	No.
	INNOVANCE® VWF Ac Reagent III	No.
Additional	INNOVANCE® VWF Ac Reagent I	-
information	INNOVANCE® VWF Ac Reagent II	-
	INNOVANCE® VWF Ac Reagent III	-
	IMDG	
		Not ve gudate d
UN number	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II	Not regulated. Not regulated.
	INNOVANCE® VWF Ac Reagent II	Not regulated.
	6	Hot rogulatou.
UN proper	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II	-
shipping name	INNOVANCE® VWF Ac Reagent III	- -
_ ,	0	
Transport	INNOVANCE® VWF Ac Reagent I INNOVANCE® VWF Ac Reagent II	-
hazard class(es)	INNOVANCE® VWF Ac Reagent III	-
Packing group	INNOVANCE® VWF Ac Reagent I	-
	INNOVANCE® VWF Ac Reagent II	-
	INNOVANCE® VWF Ac Reagent III	-

Date of previous issue

Section 14. Transport information

Section 14	. Transpo	rt information		
Environmental hazards	INNOVANCE®	VWF Ac Reagent I VWF Ac Reagent II VWF Ac Reagent III	No. No. No.	
Additional information	INNOVANCE®	VWF Ac Reagent I VWF Ac Reagent II VWF Ac Reagent III	- -	
	ΙΑΤΑ			
UN number	INNOVANCE®	VWF Ac Reagent I VWF Ac Reagent II VWF Ac Reagent III	Not re	egulated. egulated. egulated.
UN proper shipping name	INNOVANCE®	VWF Ac Reagent I VWF Ac Reagent II VWF Ac Reagent III	-	
Transport hazard class(es)	INNOVANCE®	VWF Ac Reagent I VWF Ac Reagent II VWF Ac Reagent III	- - -	
Packing group	INNOVANCE®	VWF Ac Reagent I VWF Ac Reagent II VWF Ac Reagent III	- - -	
Environmental hazards	INNOVANCE®	VWF Ac Reagent I VWF Ac Reagent II VWF Ac Reagent III	No. No. No.	
Additional information	INNOVANCE®	VWF Ac Reagent I VWF Ac Reagent II VWF Ac Reagent III	- - -	
Special precaution	ons for user :	INNOVANCE® VWF Ac Reagent I		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® VWF Ac Reagent II		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® VWF Ac Reagent II	I	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 Water Act (CWA) 311: disodium hydrogenorthophosphate
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

			SARA 302 TPQ SARA 304 F		RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
INNOVANCE® VWF Ac Reagent II sodium azide	0.0951	Yes.	500	-	1000	-
INNOVANCE® VWF Ac Reagent III sodium azide	0.000712	Yes.	500	-	1000	-

SARA 304 RQ

: 1899373.2 lbs / 862315.4 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Classification
INNOVANCE® VWF Ac Reagent II sodium azide		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: .ALPHAD-GLUCOPYRANOSIDE, .BETAD- FRUCTOFURANOSYL

California Prop. 65

WARNING: This product can expose you to Gentamicin, 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® VWF Ac Reagent I Gentamicin	-	-
INNOVANCE® VWF Ac Reagent III Gentamicin	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

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

Not listed.

Section 16. Other information

<u>History</u> 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.	

Indicates information that has changed from previously issued version.