SAFETY DATA SHEET

SIEMENS

Atellica™ IM Syphilis (Syph)

SDS # : 10995675

Section 1. Identification

Product identifier : Atellica™ IM Syphilis (Syph)

Product code : 10995675

Product type : Liquid.

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

Not applicable.

Manufactured/supplied : Siemens Healthcare Diagnostics Inc.
511 Benedict Avenue
Tarrytown, NY 10591-5097 USA
1-877-229-3711

(800) 424-9300 (CHEMTREC) (24/365)

Section 2. Hazards identification

OSHA/HCS status :

Syph Solid Phase 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.
Syph Ancillary Pack 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.
Syph Low 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.
Syph High 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.

Classification of the substance or mixture :

Syph Solid Phase Reagent	Not classified.
Syph Ancillary Pack Reagent	Not classified.
Syph Low Calibrator	Not classified.
Syph High Calibrator	Not classified.

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

Signal word

Syph Solid Phase Reagent	No signal word.
Syph Ancillary Pack Reagent	No signal word.
Syph Low Calibrator	No signal word.
Syph High Calibrator	No signal word.

Hazard statements

Syph Solid Phase Reagent	No known significant effects or critical hazards.
Syph Ancillary Pack Reagent	No known significant effects or critical hazards.
Syph Low Calibrator	No known significant effects or critical hazards.
Syph High Calibrator	No known significant effects or critical hazards.

Precautionary statements

Prevention

Syph Solid Phase Reagent	Not applicable.
Syph Ancillary Pack Reagent	Not applicable.
Syph Low Calibrator	Not applicable.
Syph High Calibrator	Not applicable.

Response

Syph Solid Phase Reagent	Not applicable.
Syph Ancillary Pack Reagent	Not applicable.
Syph Low Calibrator	Not applicable.
Syph High Calibrator	Not applicable.

Storage

Syph Solid Phase Reagent	Not applicable.
Syph Ancillary Pack Reagent	Not applicable.
Syph Low Calibrator	Not applicable.
Syph High Calibrator	Not applicable.

Disposal

Syph Solid Phase Reagent	Not applicable.
Syph Ancillary Pack Reagent	Not applicable.
Syph Low Calibrator	Not applicable.
Syph High Calibrator	Not applicable.

Supplemental label elements

Syph Solid Phase Reagent	None known.
Syph Ancillary Pack Reagent	None known.
Syph Low Calibrator	None known.
Syph High Calibrator	None known.

Hazards not otherwise classified

Syph Solid Phase Reagent	None known.
Syph Ancillary Pack Reagent	None known.
Syph Low Calibrator	None known.
Syph High Calibrator	None known.

Section 3. Composition/information on ingredients

Substance/mixture

Syph Solid Phase Reagent	Mixture
Syph Ancillary Pack Reagent	Mixture
Syph Low Calibrator	Mixture
Syph High Calibrator	Mixture

Ingredient name	%	CAS number
Syph Low Calibrator		
sodium azide	0.09	26628-22-8
Syph High Calibrator		
sodium azide	0.09	26628-22-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 3. Composition/information on ingredients

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Syph Solid Phase 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.
		Syph Ancillary Pack 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.
		Syph Low 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.
		Syph High 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.
Inhalation	:	Syph Solid Phase Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Syph Ancillary Pack Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Syph Low Calibrator	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Syph High Calibrator	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Syph Solid Phase Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Syph Ancillary Pack Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Syph Low Calibrator	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Syph High Calibrator	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Syph Solid Phase Reagent	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
		Syph Ancillary Pack Reagent	Wash out mouth with water. Remove

Section 4. First aid measures

		victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Syph Low Calibrator	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Syph High Calibrator	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	Syph Solid Phase Reagent	No known significant effects or critical hazards.
		Syph Ancillary Pack Reagent	No known significant effects or critical hazards.
		Syph Low Calibrator	No known significant effects or critical hazards.
		Syph High Calibrator	No known significant effects or critical hazards.
Inhalation	:	Syph Solid Phase Reagent	No known significant effects or critical hazards.
		Syph Ancillary Pack Reagent	No known significant effects or critical hazards.
		Syph Low Calibrator	No known significant effects or critical hazards.
		Syph High Calibrator	No known significant effects or critical hazards.
Skin contact	:	Syph Solid Phase Reagent	No known significant effects or critical hazards.
		Syph Ancillary Pack Reagent	No known significant effects or critical hazards.
		Syph Low Calibrator	No known significant effects or critical hazards.
		Syph High Calibrator	No known significant effects or critical hazards.
Ingestion	:	Syph Solid Phase Reagent	No known significant effects or critical hazards.
		Syph Ancillary Pack Reagent	No known significant effects or critical hazards.
		Syph Low Calibrator	No known significant effects or critical hazards.
		Syph High Calibrator	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact	:	Syph Solid Phase Reagent	No specific data.
		Syph Ancillary Pack Reagent	No specific data.
		Syph Low Calibrator	No specific data.
		Syph High Calibrator	No specific data.
Inhalation	:	Syph Solid Phase Reagent	No specific data.
		Syph Ancillary Pack Reagent	No specific data.
		Syph Low Calibrator	No specific data.
		Syph High Calibrator	No specific data.
Skin contact	:	Syph Solid Phase Reagent	No specific data.
		Syph Ancillary Pack Reagent	No specific data.
		Syph Low Calibrator	No specific data.
		Syph High Calibrator	No specific data.
Ingestion	:	Syph Solid Phase Reagent	No specific data.
		Syph Ancillary Pack Reagent	No specific data.
		Syph Low Calibrator	No specific data.
		Syph High Calibrator	No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
halogenated compounds
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If 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".

Section 6. Accidental release measures

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

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Syph Low Calibrator sodium azide	**ACGIH TLV (United States, 3/2015). Notes: as hydrazoic acid vapor** C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor **ACGIH TLV (United States, 3/2015).** C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide **NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: NAN3** CEIL: 0.3 mg/m³, (NAN3) **NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: as HN3** CEIL: 0.1 ppm, (as HN3) **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as HN3** CEIL: 0.1 ppm, (as HN3) **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as NaN3** CEIL: 0.3 mg/m³, (as NaN3)
Syph High Calibrator	

Section 8. Exposure controls/personal protection

sodium azide	**ACGIH TLV (United States, 3/2015). Notes: as hydrazoic acid vapor** C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor **ACGIH TLV (United States, 3/2015).** C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide **NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: NAN3** CEIL: 0.3 mg/m³, (NAN3) **NIOSH REL (United States, 10/2013). Absorbed through skin. Notes: as HN3** CEIL: 0.1 ppm, (as HN3) **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as HN3** CEIL: 0.1 ppm, (as HN3) **OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as NaN3** CEIL: 0.3 mg/m³, (as 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 measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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

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

Respiratory protection : 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 :

Syph Solid Phase Reagent	Liquid.
Syph Ancillary Pack Reagent	Liquid.
Syph Low Calibrator	Liquid.
Syph High Calibrator	Liquid.

Section 9. Physical and chemical properties

Color	:	Syph Solid Phase Reagent	Brown.
		Syph Ancillary Pack Reagent	Yellowish-brown.
		Syph Low Calibrator	Colorless.
		Syph High Calibrator	Colorless.
Odor	:	Syph Solid Phase Reagent	Odorless.
		Syph Ancillary Pack Reagent	Odorless.
		Syph Low Calibrator	Odorless.
		Syph High Calibrator	Odorless.
pH	:	Syph Solid Phase Reagent	6.5
		Syph Ancillary Pack Reagent	7
		Syph Low Calibrator	7
		Syph High Calibrator	7
Flash point	:	Syph Solid Phase Reagent	[Product does not sustain combustion.]
		Syph Ancillary Pack Reagent	[Product does not sustain combustion.]
		Syph Low Calibrator	[Product does not sustain combustion.]
		Syph High Calibrator	[Product does not sustain combustion.]
Flammability (solid, gas)	:	Syph Solid Phase Reagent	Not relevant/applicable due to nature of the product.
		Syph Ancillary Pack Reagent	Not relevant/applicable due to nature of the product.
		Syph Low Calibrator	Not relevant/applicable due to nature of the product.
		Syph High Calibrator	Not relevant/applicable due to nature of the product.
Relative density	:	Syph Solid Phase Reagent	Not relevant/applicable due to nature of the product.
		Syph Ancillary Pack Reagent	Not relevant/applicable due to nature of the product.
		Syph Low Calibrator	1.02
		Syph High Calibrator	1.02
Solubility in water	:	Syph Solid Phase Reagent	Not relevant/applicable due to nature of the product.
		Syph Ancillary Pack Reagent	Not relevant/applicable due to nature of the product.
		Syph Low Calibrator	Not relevant/applicable due to nature of the product.
		Syph High Calibrator	Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/water	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.
Auto-ignition temperature	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.
Viscosity	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.
Aerosol product			
Type of aerosol	:	Syph Solid Phase Reagent	Not applicable.
		Syph Ancillary Pack Reagent	Not applicable.
		Syph Low Calibrator	Not applicable.
		Syph High Calibrator	Not applicable.

Section 10. Stability and reactivity

Reactivity	:	Syph Solid Phase Reagent	No specific test data related to reactivity available for this product or its ingredients.
		Syph Ancillary Pack Reagent	No specific test data related to reactivity available for this product or its ingredients.
		Syph Low Calibrator	No specific test data related to reactivity available for this product or its ingredients.
		Syph High Calibrator	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Syph Solid Phase Reagent	The product is stable.
		Syph Ancillary Pack Reagent	The product is stable.
		Syph Low Calibrator	The product is stable.
		Syph High Calibrator	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	:	No specific data.	
Incompatible materials	:	No specific data.	
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Syph Low Calibrator				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
Syph High Calibrator				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-

Conclusion/Summary	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.
Eyes	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.
Respiratory	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.

Section 11. Toxicological information

Sensitization

Not available.

Conclusion/Summary

Skin	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.
Respiratory	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.

Mutagenicity

Not available.

Conclusion/Summary	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.

Carcinogenicity

Not available.

Conclusion/Summary	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.

Reproductive toxicity

Not available.

Conclusion/Summary	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.

Teratogenicity

Not available.

Conclusion/Summary	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	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	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.

Potential acute health effects

Section 11. Toxicological information

Eye contact	:	Syph Solid Phase Reagent	No known significant effects or critical hazards.
		Syph Ancillary Pack Reagent	No known significant effects or critical hazards.
		Syph Low Calibrator	No known significant effects or critical hazards.
		Syph High Calibrator	No known significant effects or critical hazards.
Inhalation	:	Syph Solid Phase Reagent	No known significant effects or critical hazards.
		Syph Ancillary Pack Reagent	No known significant effects or critical hazards.
		Syph Low Calibrator	No known significant effects or critical hazards.
		Syph High Calibrator	No known significant effects or critical hazards.
Skin contact	:	Syph Solid Phase Reagent	No known significant effects or critical hazards.
		Syph Ancillary Pack Reagent	No known significant effects or critical hazards.
		Syph Low Calibrator	No known significant effects or critical hazards.
		Syph High Calibrator	No known significant effects or critical hazards.
Ingestion	:	Syph Solid Phase Reagent	No known significant effects or critical hazards.
		Syph Ancillary Pack Reagent	No known significant effects or critical hazards.
		Syph Low Calibrator	No known significant effects or critical hazards.
		Syph High Calibrator	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	Syph Solid Phase Reagent	No specific data.
		Syph Ancillary Pack Reagent	No specific data.
		Syph Low Calibrator	No specific data.
		Syph High Calibrator	No specific data.
Inhalation	:	Syph Solid Phase Reagent	No specific data.
		Syph Ancillary Pack Reagent	No specific data.
		Syph Low Calibrator	No specific data.
		Syph High Calibrator	No specific data.
Skin contact	:	Syph Solid Phase Reagent	No specific data.
		Syph Ancillary Pack Reagent	No specific data.
		Syph Low Calibrator	No specific data.
		Syph High Calibrator	No specific data.
Ingestion	:	Syph Solid Phase Reagent	No specific data.
		Syph Ancillary Pack Reagent	No specific data.
		Syph Low Calibrator	No specific data.
		Syph High Calibrator	No specific data.

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

Short term exposure

Potential immediate effects	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.
Potential delayed effects	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.

Section 11. Toxicological information

Long term exposure

Potential immediate effects	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.
Potential delayed effects	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	:	Not available.	Syph Solid Phase Reagent
		Not available.	Syph Ancillary Pack Reagent
		Not available.	Syph Low Calibrator
		Not available.	Syph High Calibrator
General	:	No known significant effects or critical hazards.	
Carcinogenicity	:	No known significant effects or critical hazards.	
Mutagenicity	:	No known significant effects or critical hazards.	
Teratogenicity	:	No known significant effects or critical hazards.	
Developmental effects	:	No known significant effects or critical hazards.	
Fertility effects	:	No known significant effects or critical hazards.	

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Syph Solid Phase Reagent	
Oral	102634.3 mg/kg
Syph Ancillary Pack Reagent	
Oral	103058.2 mg/kg

Interactive effects	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.
Other information	:	Syph Solid Phase Reagent	Not available.
		Syph Ancillary Pack Reagent	Not available.
		Syph Low Calibrator	Not available.
		Syph High Calibrator	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Syph Low Calibrator			
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	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
Syph High Calibrator			
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours

Section 12. Ecological information

	Acute EC50 4.2 to 6.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 9000 µg/l Fresh water	Crustaceans - Gammarus lacustris	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 :

Syph Solid Phase Reagent	Not available.
Syph Ancillary Pack Reagent	Not available.
Syph Low Calibrator	Not available.
Syph High Calibrator	Not available.

Persistence and degradability

Conclusion/Summary :

Syph Solid Phase Reagent	Not available.
Syph Ancillary Pack Reagent	Not available.
Syph Low Calibrator	Not available.
Syph High Calibrator	Not available.

Bioaccumulative potential

Not available.

Mobility in soil

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

Syph Solid Phase Reagent	Not available.
Syph Ancillary Pack Reagent	Not available.
Syph Low Calibrator	Not available.
Syph High Calibrator	Not available.

Mobility :

Syph Solid Phase Reagent	Not available.
Syph Ancillary Pack Reagent	Not available.
Syph Low Calibrator	Not available.
Syph High Calibrator	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

Syph Solid Phase Reagent	Not regulated.
Syph Ancillary Pack Reagent	Not regulated.
Syph Low Calibrator	Not regulated.
Syph High Calibrator	Not regulated.

UN proper shipping name

Syph Solid Phase Reagent	-
Syph Ancillary Pack Reagent	-
Syph Low Calibrator	-
Syph High Calibrator	-

Section 14. Transport information

Transport hazard class(es)	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Packing group	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Environmental hazards	Syph Solid Phase Reagent	No.
	Syph Ancillary Pack Reagent	No.
	Syph Low Calibrator	No.
	Syph High Calibrator	No.
Additional information	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-

TDG Classification

UN number	Syph Solid Phase Reagent	Not regulated.
	Syph Ancillary Pack Reagent	Not regulated.
	Syph Low Calibrator	Not regulated.
	Syph High Calibrator	Not regulated.
UN proper shipping name	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Transport hazard class(es)	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Packing group	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Environmental hazards	Syph Solid Phase Reagent	No.
	Syph Ancillary Pack Reagent	No.
	Syph Low Calibrator	No.
	Syph High Calibrator	No.
Additional information	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-

ADR/RID

UN number	Syph Solid Phase Reagent	Not regulated.
	Syph Ancillary Pack Reagent	Not regulated.
	Syph Low Calibrator	Not regulated.
	Syph High Calibrator	Not regulated.

Section 14. Transport information

UN proper shipping name	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Transport hazard class(es)	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Packing group	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Environmental hazards	Syph Solid Phase Reagent	No.
	Syph Ancillary Pack Reagent	No.
	Syph Low Calibrator	No.
	Syph High Calibrator	No.
Additional information	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-

IMDG

UN number	Syph Solid Phase Reagent	Not regulated.
	Syph Ancillary Pack Reagent	Not regulated.
	Syph Low Calibrator	Not regulated.
	Syph High Calibrator	Not regulated.
UN proper shipping name	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Transport hazard class(es)	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Packing group	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Environmental hazards	Syph Solid Phase Reagent	No.
	Syph Ancillary Pack Reagent	No.
	Syph Low Calibrator	No.
	Syph High Calibrator	No.
Additional information	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-

IATA

Section 14. Transport information

UN number	Syph Solid Phase Reagent	Not regulated.
	Syph Ancillary Pack Reagent	Not regulated.
	Syph Low Calibrator	Not regulated.
	Syph High Calibrator	Not regulated.
UN proper shipping name	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Transport hazard class(es)	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Packing group	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-
Environmental hazards	Syph Solid Phase Reagent	No.
	Syph Ancillary Pack Reagent	No.
	Syph Low Calibrator	No.
	Syph High Calibrator	No.
Additional information	Syph Solid Phase Reagent	-
	Syph Ancillary Pack Reagent	-
	Syph Low Calibrator	-
	Syph High Calibrator	-

Special precautions for user :	Syph Solid Phase 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.
	Syph Ancillary Pack 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.
	Syph Low 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.
	Syph High 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.

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

Proper shipping name :

Ship type :

Pollution category :

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) PAIR**: Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-; Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined.

Clean Water Act (CWA) 311: Phosphoric acid, disodium salt, heptahydrate

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ (lbs)	SARA 302 TPQ (gallons)	SARA 304 RQ (lbs)	SARA 304 RQ (gallons)
Syph Low Calibrator sodium azide	0.09	Yes.	500	-	1000	-
Syph High Calibrator sodium azide	0.09	Yes.	500	-	1000	-

SARA 304 RQ : 9444444.4 lbs / 4287777.8 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Syph Low Calibrator sodium azide	0.09	No.	No.	No.	Yes.	No.
Syph High Calibrator sodium azide	0.09	No.	No.	No.	Yes.	No.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

International regulations

Chemical Weapons Convention List Schedule I Chemicals :

Syph Solid Phase Reagent	Not listed
Syph Ancillary Pack Reagent	Not listed
Syph Low Calibrator	Not listed
Syph High Calibrator	Not listed

Section 15. Regulatory information

Chemical Weapons Convention List Schedule II Chemicals	:	Syph Solid Phase Reagent	Not listed
		Syph Ancillary Pack Reagent	Not listed
		Syph Low Calibrator	Not listed
		Syph High Calibrator	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Syph Solid Phase Reagent	Not listed
		Syph Ancillary Pack Reagent	Not listed
		Syph Low Calibrator	Not listed
		Syph High Calibrator	Not listed

Section 16. Other information

History

Date of issue/Date of revision : 8/30/2017

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

Indicates information that has changed from previously issued version.