

SAFETY DATA SHEET

SIEMENS

Atellica™ IM High Sensitivity Troponin I (TnIH)

SDS #: 10997840

Section 1. Identification

Product identifier : Atellica™ IM High Sensitivity Troponin I (TnIH)
Product code : 10997840, 10997841
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	: TnIH Lite 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.
	TnIH 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.
	TnIH Calibrator High	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.
	TnIH Calibrator Low	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	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not classified. Not classified. Not classified. Not classified.
Additional information	: Potentially biohazardous material.	

Section 2. Hazards identification

Not available.

GHS label elements

Signal word	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	No signal word. No signal word. No signal word. No signal word.
Hazard statements	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Precautionary statements

Prevention	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not applicable. Not applicable. Not applicable. Not applicable.
Response	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label elements	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	None known. None known. None known. None known.
Hazards not otherwise classified	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	None known. None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Mixture Mixture Mixture Mixture
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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: TnIH Lite 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.
	TnIH 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.
	TnIH Calibrator High	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.
	TnIH Calibrator Low	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	: TnIH Lite Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	TnIH Solid Phase Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	TnIH Calibrator High	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	TnIH Calibrator Low	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	: TnIH Lite Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	TnIH Solid Phase Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	TnIH Calibrator High	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	TnIH Calibrator Low	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: TnIH Lite 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

Section 4. First aid measures

TnIH Solid Phase Reagent

symptoms occur.

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.

TnIH Calibrator High

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.

TnIH Calibrator Low

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

: TnIH Lite Reagent

No known significant effects or critical hazards.

TnIH Solid Phase Reagent

No known significant effects or critical hazards.

TnIH Calibrator High

No known significant effects or critical hazards.

TnIH Calibrator Low

No known significant effects or critical hazards.

Inhalation

: TnIH Lite Reagent

No known significant effects or critical hazards.

TnIH Solid Phase Reagent

No known significant effects or critical hazards.

TnIH Calibrator High

No known significant effects or critical hazards.

TnIH Calibrator Low

No known significant effects or critical hazards.

Skin contact

: TnIH Lite Reagent

No known significant effects or critical hazards.

TnIH Solid Phase Reagent

No known significant effects or critical hazards.

TnIH Calibrator High

No known significant effects or critical hazards.

TnIH Calibrator Low

No known significant effects or critical hazards.

Ingestion

: TnIH Lite Reagent

No known significant effects or critical hazards.

TnIH Solid Phase Reagent

No known significant effects or critical hazards.

TnIH Calibrator High

No known significant effects or critical hazards.

TnIH Calibrator Low

No known significant effects or critical

Section 4. First aid measures

hazards.

Over-exposure signs/symptoms

Eye contact	: TnIH Lite Reagent	No specific data.
	TnIH Solid Phase Reagent	No specific data.
	TnIH Calibrator High	No specific data.
	TnIH Calibrator Low	No specific data.
Inhalation	: TnIH Lite Reagent	No specific data.
	TnIH Solid Phase Reagent	No specific data.
	TnIH Calibrator High	No specific data.
	TnIH Calibrator Low	No specific data.
Skin contact	: TnIH Lite Reagent	No specific data.
	TnIH Solid Phase Reagent	No specific data.
	TnIH Calibrator High	No specific data.
	TnIH Calibrator Low	No specific data.
Ingestion	: TnIH Lite Reagent	No specific data.
	TnIH Solid Phase Reagent	No specific data.
	TnIH Calibrator High	No specific data.
	TnIH Calibrator Low	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.
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Hazardous thermal decomposition products	: Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
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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.
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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 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

None.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal 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	: TnIH Lite Reagent	Liquid.
	TnIH Solid Phase Reagent	Liquid.
	TnIH Calibrator High	Liquid.
	TnIH Calibrator Low	Liquid.
Color	: TnIH Lite Reagent	Clear.
	TnIH Solid Phase Reagent	Brown.
	TnIH Calibrator High	Amber.
	TnIH Calibrator Low	Clear.
Odor	: TnIH Lite Reagent	None.
	TnIH Solid Phase Reagent	None.
	TnIH Calibrator High	None.
	TnIH Calibrator Low	None.
pH	: TnIH Lite Reagent	7.1
	TnIH Solid Phase Reagent	7.1
	TnIH Calibrator High	7
	TnIH Calibrator Low	7.1
Flash point	: TnIH Lite Reagent	[Product does not sustain combustion.]
	TnIH Solid Phase Reagent	[Product does not sustain combustion.]
	TnIH Calibrator High	[Product does not sustain combustion.]
	TnIH Calibrator Low	[Product does not sustain combustion.]
Flammability (solid, gas)	: TnIH Lite Reagent	Not relevant/applicable due to nature of the product.
	TnIH Solid Phase Reagent	Not relevant/applicable due to nature of the product.
	TnIH Calibrator High	Not relevant/applicable due to nature of the product.
	TnIH Calibrator Low	Not relevant/applicable due to nature of the product.
Relative density	: TnIH Lite Reagent	1
	TnIH Solid Phase Reagent	1
	TnIH Calibrator High	1
	TnIH Calibrator Low	1
Solubility in water	: TnIH Lite Reagent	Not relevant/applicable due to nature of the product.
	TnIH Solid Phase Reagent	Not relevant/applicable due to nature of the product.
	TnIH Calibrator High	Not relevant/applicable due to nature of the product.
	TnIH Calibrator Low	Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/water	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.

Section 9. Physical and chemical properties

Auto-ignition temperature	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.
Viscosity	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.
<u>Aerosol product</u>		
Type of aerosol	: TnIH Lite Reagent	Not applicable.
	TnIH Solid Phase Reagent	Not applicable.
	TnIH Calibrator High	Not applicable.
	TnIH Calibrator Low	Not applicable.

Section 10. Stability and reactivity

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Conclusion/Summary	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.

Section 11. Toxicological information

Eyes	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not available. Not available. Not available. Not available.
Respiratory	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not available. Not available. Not available. Not available.
<u>Sensitization</u>		
Not available.		
<u>Conclusion/Summary</u>		
Skin	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not available. Not available. Not available. Not available.
Respiratory	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not available. Not available. Not available. Not available.
<u>Mutagenicity</u>		
Not available.		
<u>Conclusion/Summary</u>	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not available. Not available. Not available. Not available.
<u>Carcinogenicity</u>		
Not available.		
<u>Conclusion/Summary</u>	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not available. Not available. Not available. Not available.
<u>Reproductive toxicity</u>		
Not available.		
<u>Conclusion/Summary</u>	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not available. Not available. Not available. Not available.
<u>Teratogenicity</u>		
Not available.		
<u>Conclusion/Summary</u>	: TnIH Lite Reagent TnIH Solid Phase Reagent TnIH Calibrator High TnIH Calibrator Low	Not available. Not available. Not available. Not available.
<u>Specific target organ toxicity (single exposure)</u>		
Not available.		
<u>Specific target organ toxicity (repeated exposure)</u>		
Not available.		
<u>Aspiration hazard</u>		
Not available.		

Section 11. Toxicological information

Information on the likely routes of exposure	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.
Potential acute health effects		
Eye contact	: TnIH Lite Reagent	No known significant effects or critical hazards.
	TnIH Solid Phase Reagent	No known significant effects or critical hazards.
	TnIH Calibrator High	No known significant effects or critical hazards.
	TnIH Calibrator Low	No known significant effects or critical hazards.
Inhalation	: TnIH Lite Reagent	No known significant effects or critical hazards.
	TnIH Solid Phase Reagent	No known significant effects or critical hazards.
	TnIH Calibrator High	No known significant effects or critical hazards.
	TnIH Calibrator Low	No known significant effects or critical hazards.
Skin contact	: TnIH Lite Reagent	No known significant effects or critical hazards.
	TnIH Solid Phase Reagent	No known significant effects or critical hazards.
	TnIH Calibrator High	No known significant effects or critical hazards.
	TnIH Calibrator Low	No known significant effects or critical hazards.
Ingestion	: TnIH Lite Reagent	No known significant effects or critical hazards.
	TnIH Solid Phase Reagent	No known significant effects or critical hazards.
	TnIH Calibrator High	No known significant effects or critical hazards.
	TnIH Calibrator Low	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: TnIH Lite Reagent	No specific data.
	TnIH Solid Phase Reagent	No specific data.
	TnIH Calibrator High	No specific data.
	TnIH Calibrator Low	No specific data.
Inhalation	: TnIH Lite Reagent	No specific data.
	TnIH Solid Phase Reagent	No specific data.
	TnIH Calibrator High	No specific data.
	TnIH Calibrator Low	No specific data.
Skin contact	: TnIH Lite Reagent	No specific data.
	TnIH Solid Phase Reagent	No specific data.
	TnIH Calibrator High	No specific data.
	TnIH Calibrator Low	No specific data.
Ingestion	: TnIH Lite Reagent	No specific data.
	TnIH Solid Phase Reagent	No specific data.
	TnIH Calibrator High	No specific data.
	TnIH Calibrator Low	No specific data.

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

Short term exposure

Section 11. Toxicological information

Potential immediate effects	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.
Potential delayed effects	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.

Long term exposure

Potential immediate effects	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.
Potential delayed effects	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	: Not available.	TnIH Lite Reagent
	Not available.	TnIH Solid Phase Reagent
	Not available.	TnIH Calibrator High
	Not available.	TnIH Calibrator Low

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
TnIH Lite Reagent Oral	102739.2 mg/kg
TnIH Solid Phase Reagent Oral	102739.2 mg/kg
TnIH Calibrator Low Oral	46356.8 mg/kg

Interactive effects	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.

Other information	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.

Section 12. Ecological information

Toxicity

Not available.

Conclusion/Summary	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.

Persistence and degradability

Conclusion/Summary	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc})	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	Not available.
Mobility	: TnIH Lite Reagent	Not available.
	TnIH Solid Phase Reagent	Not available.
	TnIH Calibrator High	Not available.
	TnIH Calibrator Low	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.
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Section 14. Transport information

DOT Classification

UN number	TnIH Lite Reagent	Not regulated.
	TnIH Solid Phase Reagent	Not regulated.
	TnIH Calibrator High	Not regulated.
	TnIH Calibrator Low	Not regulated.
UN proper shipping name	TnIH Lite Reagent	-
	TnIH Solid Phase Reagent	-
	TnIH Calibrator High	-
	TnIH Calibrator Low	-

Section 14. Transport information

Transport hazard class(es)	TnIH Lite Reagent	-
	TnIH Solid Phase Reagent	-
	TnIH Calibrator High	-
	TnIH Calibrator Low	-
Packing group	TnIH Lite Reagent	-
	TnIH Solid Phase Reagent	-
	TnIH Calibrator High	-
	TnIH Calibrator Low	-
Environmental hazards	TnIH Lite Reagent	No.
	TnIH Solid Phase Reagent	No.
	TnIH Calibrator High	No.
	TnIH Calibrator Low	No.
Additional information	TnIH Lite Reagent	-
	TnIH Solid Phase Reagent	-
	TnIH Calibrator High	-
	TnIH Calibrator Low	-
TDG Classification		
UN number	TnIH Lite Reagent	Not regulated.
	TnIH Solid Phase Reagent	Not regulated.
	TnIH Calibrator High	Not regulated.
	TnIH Calibrator Low	Not regulated.
UN proper shipping name	TnIH Lite Reagent	-
	TnIH Solid Phase Reagent	-
	TnIH Calibrator High	-
	TnIH Calibrator Low	-
Transport hazard class(es)	TnIH Lite Reagent	-
	TnIH Solid Phase Reagent	-
	TnIH Calibrator High	-
	TnIH Calibrator Low	-
Packing group	TnIH Lite Reagent	-
	TnIH Solid Phase Reagent	-
	TnIH Calibrator High	-
	TnIH Calibrator Low	-
Environmental hazards	TnIH Lite Reagent	No.
	TnIH Solid Phase Reagent	No.
	TnIH Calibrator High	No.
	TnIH Calibrator Low	No.
Additional information	TnIH Lite Reagent	-
	TnIH Solid Phase Reagent	-
	TnIH Calibrator High	-
	TnIH Calibrator Low	-
ADR/RID		
UN number	TnIH Lite Reagent	Not regulated.
	TnIH Solid Phase Reagent	Not regulated.
	TnIH Calibrator High	Not regulated.
	TnIH Calibrator Low	Not regulated.

Section 14. Transport information

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

IATA

Section 14. Transport information

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

Special precautions for user :  TnIH Lite Reagent

TnIH Solid Phase Reagent

TnIH Calibrator High

TnIH Calibrator Low

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 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 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 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) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): 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 : Not applicable.

Composition/information on ingredients

No products were found.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	 TnIH Calibrator Low ammonium sulphate	7783-20-2	1.98
Supplier notification	 TnIH Calibrator Low ammonium sulphate	7783-20-2	1.98

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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	:  TnIH Lite Reagent	Not listed
	TnIH Solid Phase Reagent	Not listed
	TnIH Calibrator High	Not listed
	TnIH Calibrator Low	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:  TnIH Lite Reagent	Not listed
	TnIH Solid Phase Reagent	Not listed
	TnIH Calibrator High	Not listed
	TnIH Calibrator Low	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:  TnIH Lite Reagent	Not listed
	TnIH Solid Phase Reagent	Not listed
	TnIH Calibrator High	Not listed
	TnIH Calibrator Low	Not listed

Section 16. Other information

History

Date of issue/Date of revision : 11/28/2017

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.