

# SAFETY DATA SHEET



Atellica® CH Lactate\_3 (Lac\_3)

SDS #: 11537218

## Section 1. Identification

**Product identifier** : Atellica® CH Lactate\_3 (Lac\_3)  
**Product type** : Liquid.  
**Product code** : 11537218

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

**Identified uses** : Diagnostic agents.  
**Restrictions on use** : For professional users only.

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

**In case of emergency** : (800) 424-9300 (CHEMTREC)

## Section 2. Hazard identification

**Classification of the substance or mixture** : Not classified.

### GHS label elements

<b>Signal word</b>	: Lac_3 P1 Lac_3 P2	No signal word. No signal word.
<b>Hazard statements</b>	: Lac_3 P1  Lac_3 P2	No known significant effects or critical hazards.  No known significant effects or critical hazards.

### Precautionary statements

<b>Prevention</b>	: Lac_3 P1 Lac_3 P2	Not applicable. Not applicable.
<b>Response</b>	: Lac_3 P1 Lac_3 P2	Not applicable. Not applicable.
<b>Storage</b>	: Lac_3 P1 Lac_3 P2	Not applicable. Not applicable.
<b>Disposal</b>	: Lac_3 P1 Lac_3 P2	Not applicable. Not applicable.
<b>Supplemental label elements</b>	: Lac_3 P1 Lac_3 P2	None known. None known.
<b>Hazards not otherwise classified</b>	: Lac_3 P1 Lac_3 P2	None known. None known.
<b>Additional information</b>	: Not available.	

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

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Lac_3 P1 Lac_3 P2	Mixture Mixture
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Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: Lac_3 P1	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.
	Lac_3 P2	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.
<b>Inhalation</b>	: Lac_3 P1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Lac_3 P2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: Lac_3 P1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Lac_3 P2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Lac_3 P1	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.
	Lac_3 P2	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: Lac_3 P1	No known significant effects or critical hazards.
	Lac_3 P2	No known significant effects or critical hazards.
<b>Inhalation</b>	: Lac_3 P1	No known significant effects or critical hazards.
	Lac_3 P2	No known significant effects or critical hazards.
<b>Skin contact</b>	: Lac_3 P1	No known significant effects or critical hazards.
	Lac_3 P2	No known significant effects or critical hazards.
<b>Ingestion</b>	: Lac_3 P1	No known significant effects or critical hazards.
	Lac_3 P2	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

## Section 4. First-aid measures

<b>Eye contact</b>	: Lac_3 P1 Lac_3 P2	No specific data. No specific data.
<b>Inhalation</b>	: Lac_3 P1 Lac_3 P2	No specific data. No specific data.
<b>Skin contact</b>	: Lac_3 P1 Lac_3 P2	No specific data. No specific data.
<b>Ingestion</b>	: Lac_3 P1 Lac_3 P2	No specific data. No specific data.

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

<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: No specific treatment.
<b>Protection of first-aiders</b>	: 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

<b>Suitable extinguishing media</b>	: In case of fire, use water spray (fog), foam or dry chemical.
<b>Unsuitable extinguishing media</b>	: None known.

<b>Specific hazards arising from the chemical</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: No specific data.

<b>Special protective actions for fire-fighters</b>	: 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.
<b>Special protective equipment for fire-fighters</b>	: 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

<b>For non-emergency personnel</b>	: 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.
<b>For emergency responders</b>	: 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".
<b>Environmental precautions</b>	: 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

<b>Small spill</b>	: 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.
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## Section 6. Accidental release measures

- 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. See Section 10 for incompatible materials before handling or use.

## 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

- 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.

## Section 8. Exposure controls/personal protection

**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

### Appearance

<b>Physical state</b>	: Lac_3 P1 Lac_3 P2	Liquid. Liquid.
<b>Color</b>	: Lac_3 P1 Lac_3 P2	Colorless. Yellow. [Light]
<b>Odor</b>	: Lac_3 P1 Lac_3 P2	Odorless. Odorless.
<b>Odor threshold</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>pH</b>	: Lac_3 P1 Lac_3 P2	7.8 7.8
<b>Melting point</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>Boiling point</b>	: <input checked="" type="checkbox"/> Lac_3 P1 Lac_3 P2	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
<b>Flash point</b>	: Lac_3 P1 Lac_3 P2	[Product does not sustain combustion.] [Product does not sustain combustion.]
<b>Fire point</b>	: <input checked="" type="checkbox"/> Lac_3 P1 Lac_3 P2	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
<b>Burning time</b>	: Lac_3 P1 Lac_3 P2	Not applicable. Not applicable.
<b>Burning rate</b>	: Lac_3 P1 Lac_3 P2	Not applicable. Not applicable.
<b>Evaporation rate</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>Flammability (solid, gas)</b>	: Lac_3 P1 Lac_3 P2	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
<b>Lower and upper explosive (flammable) limits</b>	: <input checked="" type="checkbox"/> Lac_3 P1 Lac_3 P2	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
<b>Vapor pressure</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>Vapor density</b>	: <input checked="" type="checkbox"/> Lac_3 P1 Lac_3 P2	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
<b>Relative density</b>	: Lac_3 P1 Lac_3 P2	1.011 1.011
<b>Solubility(ies)</b>	:	
Not available.		
<b>Solubility in water</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.

## Section 9. Physical and chemical properties

<b>Partition coefficient: n-octanol/water</b>	: Lac_3 P1 Lac_3 P2	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
<b>Auto-ignition temperature</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>Decomposition temperature</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>Viscosity</b>	: Lac_3 P1 Lac_3 P2	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: Lac_3 P1 Lac_3 P2	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: Lac_3 P1 Lac_3 P2	The product is stable. The product is stable.
<b>Possibility of hazardous reactions</b>	: Lac_3 P1 Lac_3 P2	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Lac_3 P1 Lac_3 P2	No specific data. No specific data.
<b>Incompatible materials</b>	: Lac_3 P1 Lac_3 P2	No specific data. No specific data.
<b>Hazardous decomposition products</b>	: Lac_3 P1 Lac_3 P2	Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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.

<b>Conclusion/Summary</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
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#### Irritation/Corrosion

Not available.

#### Conclusion/Summary

<b>Skin</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>Eyes</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>Respiratory</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.

## Section 11. Toxicological information

### Sensitization

Not available.

### Conclusion/Summary

<b>Skin</b>	: Lac_3 P1	Not available.
	Lac_3 P2	Not available.
<b>Respiratory</b>	: Lac_3 P1	Not available.
	Lac_3 P2	Not available.

### Mutagenicity

Not available.

<b>Conclusion/Summary</b>	: Lac_3 P1	Not available.
	Lac_3 P2	Not available.

### Carcinogenicity

Not available.

<b>Conclusion/Summary</b>	: Lac_3 P1	Not available.
	Lac_3 P2	Not available.

### Reproductive toxicity

Not available.

<b>Conclusion/Summary</b>	: Lac_3 P1	Not available.
	Lac_3 P2	Not available.

### Teratogenicity

Not available.

<b>Conclusion/Summary</b>	: Lac_3 P1	Not available.
	Lac_3 P2	Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on the likely routes of exposure</b>	: Lac_3 P1	Not available.
	Lac_3 P2	Not available.

### Potential acute health effects

<b>Eye contact</b>	: Lac_3 P1	No known significant effects or critical hazards.
	Lac_3 P2	No known significant effects or critical hazards.
<b>Inhalation</b>	: Lac_3 P1	No known significant effects or critical hazards.
	Lac_3 P2	No known significant effects or critical hazards.
<b>Skin contact</b>	: Lac_3 P1	No known significant effects or critical hazards.
	Lac_3 P2	No known significant effects or critical hazards.
<b>Ingestion</b>	: Lac_3 P1	No known significant effects or critical hazards.
	Lac_3 P2	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

## Section 11. Toxicological information

<b>Eye contact</b>	: Lac_3 P1 Lac_3 P2	No specific data. No specific data.
<b>Inhalation</b>	: Lac_3 P1 Lac_3 P2	No specific data. No specific data.
<b>Skin contact</b>	: Lac_3 P1 Lac_3 P2	No specific data. No specific data.
<b>Ingestion</b>	: Lac_3 P1 Lac_3 P2	No specific data. No specific data.

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

#### Short term exposure

<b>Potential immediate effects</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>Potential delayed effects</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>Potential delayed effects</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.

#### Potential chronic health effects

Not available.

<b>Conclusion/Summary</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>General</b>	: Lac_3 P1  Lac_3 P2	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Lac_3 P1  Lac_3 P2	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Lac_3 P1  Lac_3 P2	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: No known significant effects or critical hazards.	

### Numerical measures of toxicity

#### Acute toxicity estimates

N/A

<b>Other information</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
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## Section 12. Ecological information

### Toxicity

Not available.

<b>Conclusion/Summary</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
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### Persistence and degradability

<b>Conclusion/Summary</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
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## Section 12. Ecological information

### Bioaccumulative potential

Not available.

### Mobility in soil

<b>Soil/water partition coefficient (K<sub>oc</sub>)</b>	: Lac_3 P1 Lac_3 P2	Not available. Not available.
<b>Mobility</b>	: Lac_3 P1 Lac_3 P2	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

### IATA

<b>UN number</b>	Lac_3 P1 Lac_3 P2	Not regulated. Not regulated.
<b>UN proper shipping name</b>	Lac_3 P1 Lac_3 P2	- -
<b>Transport hazard class(es)</b>	Lac_3 P1 Lac_3 P2	- -
<b>Packing group</b>	Lac_3 P1 Lac_3 P2	- -
<b>Environmental hazards</b>	Lac_3 P1 Lac_3 P2	No. No.
<b>Additional information</b>	Lac_3 P1 Lac_3 P2	- -

**Special precautions for user** : Lac\_3 P1

Lac\_3 P2

**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.

## Section 15. Regulatory information

### Canadian lists

Canadian NPRI	: Lac_3 P1 Lac_3 P2	None of the components are listed. None of the components are listed.
CEPA Toxic substances	: Lac_3 P1 Lac_3 P2	None of the components are listed. None of the components are listed.
Canada inventory	: Lac_3 P1  Lac_3 P2	All components are listed or exempted. All components are listed or exempted.

## Section 16. Other information

### History

Date of printing	: 3/1/2024
Date of issue/Date of revision	: 3/1/2024
Date of previous issue	: 5/26/2023
Version	: 1.01

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 HPR = Hazardous Products Regulations N/A = Not available SGG = Segregation Group
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### Procedure used to derive the classification

Classification	Justification
Not classified.	

 Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.