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

SAFETY DATA SHEET

SIEMENS

Atellica™ CH Alanine Aminotransferase (ALT)

SDS # : 11097605

Section 1. Identification

Product identifier : Atellica™ CH Alanine Aminotransferase (ALT)

Product code : 11097605

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 : ALT Reagent 1 — 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.

ALT Reagent 2 — This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : ALT Reagent 1 — Not classified.

ALT Reagent 2 — EYE IRRITATION - Category 2A

Additional information : Not available.

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

GHS label elements

Hazard pictograms :

Signal word : ALT Reagent 1 — No signal word.

ALT Reagent 2 — Warning

Hazard statements : ALT Reagent 1 — No known significant effects or critical hazards.

ALT Reagent 2 — H319 - Causes serious eye irritation.

Precautionary statements

Prevention : ALT Reagent 1 — Not applicable.

ALT Reagent 2 — P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.

Section 2. Hazards identification

Response	:	ALT Reagent 1	Not applicable.
		ALT Reagent 2	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	:	ALT Reagent 1	Not applicable.
		ALT Reagent 2	Not applicable.
Disposal	:	ALT Reagent 1	Not applicable.
		ALT Reagent 2	Not applicable.
Supplemental label elements	:	ALT Reagent 1	None known.
		ALT Reagent 2	None known.
Hazards not otherwise classified	:	ALT Reagent 1	None known.
		ALT Reagent 2	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	ALT Reagent 1	Mixture
		ALT Reagent 2	Mixture

Ingredient name	%	CAS number
ALT Reagent 1		
sodium azide	0.09	26628-22-8
ALT Reagent 2		
2-oxoglutaric acid	1.36	328-50-7
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.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	ALT Reagent 1	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.
		ALT Reagent 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	ALT Reagent 1	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.
		ALT Reagent 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical

Section 4. First aid measures

attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: ALT Reagent 1: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

ALT Reagent 2: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: ALT Reagent 1: 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.

ALT Reagent 2: Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: ALT Reagent 1: No known significant effects or critical hazards.

ALT Reagent 2: Causes serious eye irritation.

Inhalation

: ALT Reagent 1: No known significant effects or critical hazards.

ALT Reagent 2: No known significant effects or critical hazards.

Skin contact

: ALT Reagent 1: No known significant effects or critical hazards.

ALT Reagent 2: No known significant effects or critical hazards.

Section 4. First aid measures

Ingestion	:	ALT Reagent 1	No known significant effects or critical hazards.
		ALT Reagent 2	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	ALT Reagent 1 ALT Reagent 2	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	ALT Reagent 1 ALT Reagent 2	No specific data. No specific data.
Skin contact	:	ALT Reagent 1 ALT Reagent 2	No specific data. No specific data.
Ingestion	:	ALT Reagent 1 ALT Reagent 2	No specific data. No specific data.

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

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam or dry chemical.
Unsuitable extinguishing media	:	None known.
Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
ALT Reagent 1 sodium azide	**ACGIH TLV (United States, 3/2018). Notes: as hydrazoic acid vapor** C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor **ACGIH TLV (United States, 3/2018).** C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide **NIOSH REL (United States, 10/2016). Absorbed through skin. Notes: NAN3** CEIL: 0.3 mg/m³, (NAN3) **NIOSH REL (United States, 10/2016). 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)
ALT Reagent 2 sodium azide	**ACGIH TLV (United States, 3/2018). Notes:**

Section 8. Exposure controls/personal protection

	as hydrazoic acid vapor C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor **ACGIH TLV (United States, 3/2018).** C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide **NIOSH REL (United States, 10/2016). Absorbed through skin. Notes: NAN3** CEIL: 0.3 mg/m³, (NAN3) **NIOSH REL (United States, 10/2016). 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.

Thermal hazards : ALT Reagent 1
ALT Reagent 2

Section 9. Physical and chemical properties

Physical state	:	ALT Reagent 1	Liquid.
		ALT Reagent 2	Liquid.
Color	:	ALT Reagent 1	Colorless.
		ALT Reagent 2	Colorless.
Odor	:	ALT Reagent 1	Odorless.
		ALT Reagent 2	Odorless.
pH	:	ALT Reagent 1	Not applicable.
		ALT Reagent 2	Not applicable.
Flash point	:	ALT Reagent 1	[Product does not sustain combustion.]
		ALT Reagent 2	[Product does not sustain combustion.]
Flammability (solid, gas)	:	ALT Reagent 1	Not relevant/applicable due to nature of the product.
		ALT Reagent 2	Not relevant/applicable due to nature of the product.
Relative density	:	ALT Reagent 1	Not relevant/applicable due to nature of the product.
		ALT Reagent 2	Not relevant/applicable due to nature of the product.
Solubility in water	:	ALT Reagent 1	Not relevant/applicable due to nature of the product.
		ALT Reagent 2	Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/water	:	ALT Reagent 1	Not available.
		ALT Reagent 2	Not available.
Auto-ignition temperature	:	ALT Reagent 1	Not available.
		ALT Reagent 2	Not available.
Viscosity	:	ALT Reagent 1	Not available.
		ALT Reagent 2	Not available.

Aerosol product

Type of aerosol	:	ALT Reagent 1	Not applicable.
		ALT Reagent 2	Not applicable.

Section 10. Stability and reactivity

Reactivity	:	ALT Reagent 1	No specific test data related to reactivity available for this product or its ingredients.
		ALT Reagent 2	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	ALT Reagent 1	The product is stable.
		ALT Reagent 2	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	:	ALT Reagent 1	No specific data.
		ALT Reagent 2	No specific data.
Incompatible materials	:	ALT Reagent 1	No specific data.
		ALT Reagent 2	No specific data.
Hazardous decomposition products	:	ALT Reagent 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		ALT Reagent 2	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
ALT Reagent 1				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
ALT Reagent 2				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-

Conclusion/Summary : ALT Reagent 1 Not available.
ALT Reagent 2 Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin : ALT Reagent 1 Not available.
ALT Reagent 2 Not available.

Eyes : ALT Reagent 1 Not available.
ALT Reagent 2 Not available.

Respiratory : ALT Reagent 1 Not available.
ALT Reagent 2 Not available.

Sensitization

Not available.

Conclusion/Summary

Skin : ALT Reagent 1 Not available.
ALT Reagent 2 Not available.

Respiratory : ALT Reagent 1 Not available.
ALT Reagent 2 Not available.

Mutagenicity

Not available.

Conclusion/Summary : ALT Reagent 1 Not available.
ALT Reagent 2 Not available.

Carcinogenicity

Not available.

Conclusion/Summary : ALT Reagent 1 Not available.
ALT Reagent 2 Not available.

Reproductive toxicity

Not available.

Conclusion/Summary : ALT Reagent 1 Not available.
ALT Reagent 2 Not available.

Teratogenicity

Not available.

Conclusion/Summary : ALT Reagent 1 Not available.
ALT Reagent 2 Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

Potential acute health effects

Eye contact : ALT Reagent 1 — No known significant effects or critical hazards.
ALT Reagent 2 — Causes serious eye irritation.

Inhalation : ALT Reagent 1 — No known significant effects or critical hazards.
ALT Reagent 2 — No known significant effects or critical hazards.

Skin contact : ALT Reagent 1 — No known significant effects or critical hazards.
ALT Reagent 2 — No known significant effects or critical hazards.

Ingestion : ALT Reagent 1 — No known significant effects or critical hazards.
ALT Reagent 2 — No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : ALT Reagent 1 — No specific data.
ALT Reagent 2 — Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : ALT Reagent 1 — No specific data.
ALT Reagent 2 — No specific data.

Skin contact : ALT Reagent 1 — No specific data.
ALT Reagent 2 — No specific data.

Ingestion : ALT Reagent 1 — No specific data.
ALT Reagent 2 — No specific data.

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

Short term exposure

Potential immediate effects : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

Potential delayed effects : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

Long term exposure

Potential immediate effects : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

Potential delayed effects : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

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

Section 11. Toxicological information

Not available.

Interactive effects : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

Other information : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ALT Reagent 1			
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours
ALT Reagent 2			
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocystis pyrifera	96 hours

Conclusion/Summary : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

Persistence and degradability

Conclusion/Summary : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : ALT Reagent 1 — Not available.
ALT Reagent 2 — Not available.

Mobility : ALT Reagent 1 — Not available.
ALT Reagent 2 — 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.

Section 13. Disposal considerations

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

Section 14. Transport information

DOT Classification

UN number	ALT Reagent 1 ALT Reagent 2	Not regulated. Not regulated.
UN proper shipping name	ALT Reagent 1 ALT Reagent 2	- -
Transport hazard class(es)	ALT Reagent 1 ALT Reagent 2	- -
Packing group	ALT Reagent 1 ALT Reagent 2	- -
Environmental hazards	ALT Reagent 1 ALT Reagent 2	No. No.
Additional information	ALT Reagent 1 ALT Reagent 2	- -

TDG Classification

UN number	ALT Reagent 1 ALT Reagent 2	Not regulated. Not regulated.
UN proper shipping name	ALT Reagent 1 ALT Reagent 2	- -
Transport hazard class(es)	ALT Reagent 1 ALT Reagent 2	- -
Packing group	ALT Reagent 1 ALT Reagent 2	- -
Environmental hazards	ALT Reagent 1 ALT Reagent 2	No. No.
Additional information	ALT Reagent 1 ALT Reagent 2	- -

ADR/RID

UN number	ALT Reagent 1 ALT Reagent 2	Not regulated. Not regulated.
UN proper shipping name	ALT Reagent 1 ALT Reagent 2	- -
Transport hazard class(es)	ALT Reagent 1 ALT Reagent 2	- -
Packing group	ALT Reagent 1 ALT Reagent 2	- -
Environmental hazards	ALT Reagent 1 ALT Reagent 2	No. No.
Additional information	ALT Reagent 1 ALT Reagent 2	- -

Section 14. Transport information

IMDG

UN number	ALT Reagent 1 ALT Reagent 2	Not regulated. Not regulated.
UN proper shipping name	ALT Reagent 1 ALT Reagent 2	- -
Transport hazard class(es)	ALT Reagent 1 ALT Reagent 2	- -
Packing group	ALT Reagent 1 ALT Reagent 2	- -
Environmental hazards	ALT Reagent 1 ALT Reagent 2	No. No.
Additional information	ALT Reagent 1 ALT Reagent 2	- -

IATA

UN number	ALT Reagent 1 ALT Reagent 2	Not regulated. Not regulated.
UN proper shipping name	ALT Reagent 1 ALT Reagent 2	- -
Transport hazard class(es)	ALT Reagent 1 ALT Reagent 2	- -
Packing group	ALT Reagent 1 ALT Reagent 2	- -
Environmental hazards	ALT Reagent 1 ALT Reagent 2	No. No.
Additional information		

Special precautions for user :	ALT Reagent 1	**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.
	ALT Reagent 2	**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	Not applicable.	

Section 15. Regulatory information

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

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ (lbs)	SARA 302 TPQ (gallons)	SARA 304 RQ (lbs)	SARA 304 RQ (gallons)
ALT Reagent 1 sodium azide	0.09	Yes.	500	-	1000	-
ALT Reagent 2 sodium azide	0.09	Yes.	500	-	1000	-

SARA 304 RQ : 1111111.1 lbs / 504444.4 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Classification
ALT Reagent 1 sodium azide	≤0.1	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 1
ALT Reagent 2 2-oxoglutaric acid sodium azide	<3 ≤0.1	SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 1

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.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapons Convention List Schedule I Chemicals	:	ALT Reagent 1 ALT Reagent 2	Not listed Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	ALT Reagent 1 ALT Reagent 2	Not listed Not listed

Section 15. Regulatory information

Chemical Weapons Convention List Schedule III Chemicals	:	ALT Reagent 1	Not listed
		ALT Reagent 2	Not listed

Section 16. Other information

History

Date of issue/Date of revision : 5/10/2022

Version : 1.02

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.