

SAFETY DATA SHEET

Atellica™ CH Hemoglobin A1c_3 (A1c_3)

SDS #: 11097500

Section 1. Identification

Product identifier : Atellica™ CH Hemoglobin A1c_3 (A1c_3)
Product code : 11097500
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 : A1c_3 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.
A1c_3 Reagent 2 : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
A1c_3 Denaturant : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : A1c_3 Reagent 1 : Not classified.
A1c_3 Reagent 2 : SKIN SENSITIZATION - Category 1
A1c_3 Denaturant : SKIN SENSITIZATION - Category 1

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 : A1c_3 Reagent 1 : No signal word.
A1c_3 Reagent 2 : Warning
A1c_3 Denaturant : Warning

Hazard statements : A1c_3 Reagent 1 : No known significant effects or critical hazards.
A1c_3 Reagent 2 : H317 - May cause an allergic skin reaction.
A1c_3 Denaturant : H317 - May cause an allergic skin reaction.

Precautionary statements

Section 2. Hazards identification

Prevention	: A1c_3 Reagent 1 A1c_3 Reagent 2 A1c_3 Denaturant	Not applicable. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Response	: A1c_3 Reagent 1 A1c_3 Reagent 2 A1c_3 Denaturant	Not applicable. P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention.
Storage	: A1c_3 Reagent 1 A1c_3 Reagent 2 A1c_3 Denaturant	Not applicable. Not applicable. Not applicable.
Disposal	: A1c_3 Reagent 1 A1c_3 Reagent 2 A1c_3 Denaturant	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, and national regulations. P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
Supplemental label elements	: A1c_3 Reagent 1 A1c_3 Reagent 2 A1c_3 Denaturant	None known. None known. None known.
Hazards not otherwise classified	: A1c_3 Reagent 1 A1c_3 Reagent 2 A1c_3 Denaturant	None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: A1c_3 Reagent 1 A1c_3 Reagent 2 A1c_3 Denaturant	Mixture Mixture Mixture
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Ingredient name	%	CAS number
A1c_3 Reagent 2 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0015	55965-84-9
A1c_3 Denaturant 1-pentanol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	1 0.00225	71-41-0 55965-84-9

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	: A1c_3 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.
	A1c_3 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 if irritation occurs.
	A1c_3 Denaturant	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 if irritation occurs.
Inhalation	: A1c_3 Reagent 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	A1c_3 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 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.
	A1c_3 Denaturant	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 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.
Skin contact	: A1c_3 Reagent 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	A1c_3 Reagent 2	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the

Section 4. First aid measures

	A1c_3 Denaturant	<p>event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p> <p>Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
Ingestion	: A1c_3 Reagent 1	<p>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.</p>
	A1c_3 Reagent 2	<p>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.</p>
	A1c_3 Denaturant	<p>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.</p>

Section 4. First aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: A1c_3 Reagent 1	No known significant effects or critical hazards.
	A1c_3 Reagent 2	No known significant effects or critical hazards.
	A1c_3 Denaturant	No known significant effects or critical hazards.
Inhalation	: A1c_3 Reagent 1	No known significant effects or critical hazards.
	A1c_3 Reagent 2	No known significant effects or critical hazards.
	A1c_3 Denaturant	No known significant effects or critical hazards.
Skin contact	: A1c_3 Reagent 1	No known significant effects or critical hazards.
	A1c_3 Reagent 2	May cause an allergic skin reaction.
	A1c_3 Denaturant	May cause an allergic skin reaction.
Ingestion	: A1c_3 Reagent 1	No known significant effects or critical hazards.
	A1c_3 Reagent 2	No known significant effects or critical hazards.
	A1c_3 Denaturant	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: A1c_3 Reagent 1	No specific data.
	A1c_3 Reagent 2	No specific data.
	A1c_3 Denaturant	No specific data.
Inhalation	: A1c_3 Reagent 1	No specific data.
	A1c_3 Reagent 2	No specific data.
	A1c_3 Denaturant	No specific data.
Skin contact	: A1c_3 Reagent 1	No specific data.
	A1c_3 Reagent 2	Adverse symptoms may include the following: irritation redness
	A1c_3 Denaturant	Adverse symptoms may include the following: irritation redness
Ingestion	: A1c_3 Reagent 1	No specific data.
	A1c_3 Reagent 2	No specific data.
	A1c_3 Denaturant	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** : No specific data.
- 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".
- 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.

Section 9. Physical and chemical properties

pH	: A1c_3 Reagent 1	7
	A1c_3 Reagent 2	8.1
	A1c_3 Denaturant	2.4
Flash point	: A1c_3 Reagent 1	[Product does not sustain combustion.]
	A1c_3 Reagent 2	[Product does not sustain combustion.]
	A1c_3 Denaturant	[Product does not sustain combustion.]
Flammability (solid, gas)	: A1c_3 Reagent 1	Not relevant/applicable due to nature of the product.
	A1c_3 Reagent 2	Not relevant/applicable due to nature of the product.
	A1c_3 Denaturant	Not relevant/applicable due to nature of the product.
Relative density	: A1c_3 Reagent 1	1.002
	A1c_3 Reagent 2	1.009
	A1c_3 Denaturant	Not relevant/applicable due to nature of the product.
Solubility in water	: A1c_3 Reagent 1	Not relevant/applicable due to nature of the product.
	A1c_3 Reagent 2	Not relevant/applicable due to nature of the product.
	A1c_3 Denaturant	Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/water	: A1c_3 Reagent 1	Not available.
	A1c_3 Reagent 2	Not available.
	A1c_3 Denaturant	Not available.
Auto-ignition temperature	: A1c_3 Reagent 1	Not available.
	A1c_3 Reagent 2	Not available.
	A1c_3 Denaturant	Not available.
Viscosity	: A1c_3 Reagent 1	Not available.
	A1c_3 Reagent 2	Not available.
	A1c_3 Denaturant	Not available.
Aerosol product		
Type of aerosol	: A1c_3 Reagent 1	Not applicable.
	A1c_3 Reagent 2	Not applicable.
	A1c_3 Denaturant	Not applicable.

Section 10. Stability and reactivity

Reactivity	: A1c_3 Reagent 1	No specific test data related to reactivity available for this product or its ingredients.
	A1c_3 Reagent 2	No specific test data related to reactivity available for this product or its ingredients.
	A1c_3 Denaturant	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: A1c_3 Reagent 1	The product is stable.
	A1c_3 Reagent 2	The product is stable.
	A1c_3 Denaturant	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
A1c_3 Reagent 2 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-
A1c_3 Denaturant 1-pentanol	LD50 Oral	Rat	370 mg/kg	-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-

Conclusion/Summary : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
A1c_3 Reagent 2 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin - Severe irritant	Human	-	0.01 Percent	-
A1c_3 Denaturant 1-pentanol	Eyes - Severe irritant	Rabbit	-	81 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 3200 milligrams	-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin - Severe irritant	Human	-	0.01 Percent	-

Conclusion/Summary

Skin : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Eyes : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Respiratory : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Sensitization

Not available.

Conclusion/Summary

Section 11. Toxicological information

Skin : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Respiratory : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Mutagenicity

Not available.

Conclusion/Summary : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Carcinogenicity

Not available.

Conclusion/Summary : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Reproductive toxicity

Not available.

Conclusion/Summary : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Teratogenicity

Not available.

Conclusion/Summary : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
A1c_3 Denaturant 1-pentanol	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Potential acute health effects

Eye contact : A1c_3 Reagent 1 No known significant effects or critical hazards.
A1c_3 Reagent 2 No known significant effects or critical hazards.
A1c_3 Denaturant No known significant effects or critical hazards.

Inhalation : A1c_3 Reagent 1 No known significant effects or critical hazards.
A1c_3 Reagent 2 No known significant effects or critical hazards.
A1c_3 Denaturant No known significant effects or critical hazards.

Section 11. Toxicological information

Skin contact	: A1c_3 Reagent 1	No known significant effects or critical hazards.
	A1c_3 Reagent 2	May cause an allergic skin reaction.
	A1c_3 Denaturant	May cause an allergic skin reaction.
Ingestion	: A1c_3 Reagent 1	No known significant effects or critical hazards.
	A1c_3 Reagent 2	No known significant effects or critical hazards.
	A1c_3 Denaturant	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: A1c_3 Reagent 1	No specific data.
	A1c_3 Reagent 2	No specific data.
	A1c_3 Denaturant	No specific data.
Inhalation	: A1c_3 Reagent 1	No specific data.
	A1c_3 Reagent 2	No specific data.
	A1c_3 Denaturant	No specific data.
Skin contact	: A1c_3 Reagent 1	No specific data.
	A1c_3 Reagent 2	Adverse symptoms may include the following: irritation redness
	A1c_3 Denaturant	Adverse symptoms may include the following: irritation redness
Ingestion	: A1c_3 Reagent 1	No specific data.
	A1c_3 Reagent 2	No specific data.
	A1c_3 Denaturant	No specific data.

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

Short term exposure

Potential immediate effects	: A1c_3 Reagent 1	Not available.
	A1c_3 Reagent 2	Not available.
	A1c_3 Denaturant	Not available.
Potential delayed effects	: A1c_3 Reagent 1	Not available.
	A1c_3 Reagent 2	Not available.
	A1c_3 Denaturant	Not available.

Long term exposure

Potential immediate effects	: A1c_3 Reagent 1	Not available.
	A1c_3 Reagent 2	Not available.
	A1c_3 Denaturant	Not available.
Potential delayed effects	: A1c_3 Reagent 1	Not available.
	A1c_3 Reagent 2	Not available.
	A1c_3 Denaturant	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	: Not available.	A1c_3 Reagent 1
	Not available.	A1c_3 Reagent 2
	Not available.	A1c_3 Denaturant

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.

Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
A1c_3 Denaturant Inhalation (vapors)	1100 mg/l

Interactive effects : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Other information : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
A1c_3 Denaturant 1-pentanol	Acute LC50 180000 µg/l Marine water	Fish - Menidia beryllina	96 hours

Conclusion/Summary : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Persistence and degradability

Conclusion/Summary : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
A1c_3 Denaturant 1-pentanol	1.51	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant Not available.

Mobility : A1c_3 Reagent 1 Not available.
A1c_3 Reagent 2 Not available.
A1c_3 Denaturant 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

Section 13. Disposal considerations

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	A1c_3 Reagent 1	Not regulated.
	A1c_3 Reagent 2	Not regulated.
	A1c_3 Denaturant	Not regulated.
UN proper shipping name	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Transport hazard class(es)	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Packing group	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Environmental hazards	A1c_3 Reagent 1	No.
	A1c_3 Reagent 2	No.
	A1c_3 Denaturant	No.
Additional information	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-

TDG Classification

UN number	A1c_3 Reagent 1	Not regulated.
	A1c_3 Reagent 2	Not regulated.
	A1c_3 Denaturant	Not regulated.
UN proper shipping name	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Transport hazard class(es)	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Packing group	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Environmental hazards	A1c_3 Reagent 1	No.
	A1c_3 Reagent 2	No.
	A1c_3 Denaturant	No.
Additional information	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-

ADR/RID

Section 14. Transport information

UN number	A1c_3 Reagent 1	Not regulated.
	A1c_3 Reagent 2	Not regulated.
	A1c_3 Denaturant	Not regulated.
UN proper shipping name	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Transport hazard class(es)	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Packing group	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Environmental hazards	A1c_3 Reagent 1	No.
	A1c_3 Reagent 2	No.
	A1c_3 Denaturant	No.
Additional information	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-

IMDG

UN number	A1c_3 Reagent 1	Not regulated.
	A1c_3 Reagent 2	Not regulated.
	A1c_3 Denaturant	Not regulated.
UN proper shipping name	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Transport hazard class(es)	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Packing group	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Environmental hazards	A1c_3 Reagent 1	No.
	A1c_3 Reagent 2	No.
	A1c_3 Denaturant	No.
Additional information	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-

IATA

UN number	A1c_3 Reagent 1	Not regulated.
	A1c_3 Reagent 2	Not regulated.
	A1c_3 Denaturant	Not regulated.
UN proper shipping name	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-

Section 14. Transport information

Transport	A1c_3 Reagent 1	-
hazard class(es)	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Packing group	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-
Environmental hazards	A1c_3 Reagent 1	No.
	A1c_3 Reagent 2	No.
	A1c_3 Denaturant	No.
Additional information	A1c_3 Reagent 1	-
	A1c_3 Reagent 2	-
	A1c_3 Denaturant	-

Special precautions for user : A1c_3 Reagent 1

A1c_3 Reagent 2

A1c_3 Denaturant

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) PAIR:** 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 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

Section 15. Regulatory information

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
A1c_3 Reagent 1 sodium azide	0.05	Yes.	500	-	1000	-

SARA 304 RQ : 3413333.3 lbs / 1549653.3 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
A1c_3 Reagent 2 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	0.0015	No.	No.	No.	Yes.	No.
A1c_3 Denaturant 1-pentanol reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	1 0.00225	Yes. No.	No. No.	No. No.	Yes. Yes.	No. 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 : A1c_3 Reagent 1 Not listed
A1c_3 Reagent 2 Not listed
A1c_3 Denaturant Not listed
Chemical Weapons Convention List Schedule II Chemicals : A1c_3 Reagent 1 Not listed
A1c_3 Reagent 2 Not listed
A1c_3 Denaturant Not listed
Chemical Weapons Convention List Schedule III Chemicals : A1c_3 Reagent 1 Not listed
A1c_3 Reagent 2 Not listed
A1c_3 Denaturant Not listed

Section 16. Other information

History

Date of issue/Date of revision : 5/18/2017

Version : 1.01

Section 16. Other information

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.