

SAFETY DATA SHEET

ADVIA Centaur HIV Ag/Ab Combo (CHIV) Assay

SIEMENS
Healthineers 

SDS no.:

06520528

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : ADVIA Centaur HIV Ag/Ab Combo (CHIV) Assay
Product code : 06520528, 10283020

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

Identified uses	CHIV Lite Reagent	Diagnostic agents.
	CHIV Solid Phase Reagent	Diagnostic agents.
	CHIV Ancillary Lite Reagent	Diagnostic agents.
	CHIV Low Calibrator	Diagnostic agents.
	CHIV High Calibrator	Diagnostic agents.

Restrictions on use For professional users only.

Supplier : Siemens Healthcare Diagnostics Limited
 Park View,
 Watchmoor Park,
 Camberley,
 Surrey,
 GU15 3YL
 United Kingdom

Phone: +44 (0) 345 600 1955

e-mail address of person responsible for this SDS : dx.msds.healthcare@siemens-healthineers.com

1.4 Emergency telephone number

CHEMTREC: +44 20 3807 3798

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: CHIV Lite Reagent	Mixture
	CHIV Solid Phase Reagent	Mixture
	CHIV Ancillary Lite Reagent	Mixture
	CHIV Low Calibrator	Mixture
	CHIV High Calibrator	Mixture

Classification according to UK CLP/GHS

CHIV High Calibrator

Skin Sens. 1, H317

Aquatic Chronic 3, H412

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



SECTION 2: Hazards identification

Signal word	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	No signal word. No signal word. No signal word. No signal word. Warning
Hazard statements	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	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. H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
<u>Precautionary statements</u>		
Prevention	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not applicable. Not applicable. Not applicable. Not applicable. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P273 - Avoid release to the environment.
Response	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not applicable. Not applicable. Not applicable. Not applicable. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.
Storage	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not applicable. Not applicable. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

SECTION 2: Hazards identification**2.3 Other hazards**

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: CHIV Lite Reagent	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: CHIV Solid Phase Reagent	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: CHIV Ancillary Lite Reagent	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: CHIV Low Calibrator	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: CHIV High Calibrator	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: CHIV Lite Reagent	None known.
	: CHIV Solid Phase Reagent	None known.
	: CHIV Ancillary Lite Reagent	None known.
	: CHIV Low Calibrator	None known.
	: CHIV High Calibrator	None known.
Additional information	: Potentially biohazardous material.	
	Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.	

SECTION 3: Composition/information on ingredients

3.1 Substances	: CHIV Lite Reagent	Mixture
	: CHIV Solid Phase Reagent	Mixture
	: CHIV Ancillary Lite Reagent	Mixture
	: CHIV Low Calibrator	Mixture
	: CHIV High Calibrator	Mixture

Product/ingredient name	Identifiers	%	Classification	Type
CHIV Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	CAS: 9002-93-1	<1	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1] [2]
CHIV Solid Phase Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	CAS: 9002-93-1	<1	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1] [2]
CHIV Ancillary Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	CAS: 9002-93-1	<1	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1] [2]
CHIV High Calibrator sodium azide	EC: 247-852-1 CAS: 26628-22-8 Index: 011-004-00-7	<0.1	Acute Tox. 2, H300 Acute Tox. 1, H310 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH032	[1] [2]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC	CAS: 55965-84-9 Index: 613-167-00-5	<0.025	Acute Tox. 3, H301 Acute Tox. 2, H310	[1]

SECTION 3: Composition/information on ingredients

no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)			Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071 See Section 16 for the full text of the H statements declared above.	
--	--	--	---	--

Type

[1] Substance classified with a health or environmental hazard

[2] Substance of equivalent concern

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

SECTION 4: First aid measures**4.1 Description of first aid measures**

Eye contact	: CHIV 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.
	CHIV 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.
	CHIV Ancillary 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.
	CHIV Low Calibrator	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	CHIV High Calibrator	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	: CHIV Lite Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	CHIV Solid Phase Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	CHIV Ancillary Lite Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	CHIV Low Calibrator	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

SECTION 4: First aid measures

	CHIV High Calibrator	<p>symptoms occur.</p> <p>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.</p>
Skin contact	: CHIV Lite Reagent	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
	CHIV Solid Phase Reagent	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
	CHIV Ancillary Lite Reagent	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
	CHIV Low Calibrator	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
	CHIV High Calibrator	<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	: CHIV Lite Reagent	<p>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.</p>
	CHIV Solid Phase Reagent	<p>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.</p>
	CHIV Ancillary Lite Reagent	<p>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.</p>
	CHIV Low Calibrator	<p>Wash out mouth with water. If material</p>

SECTION 4: First aid measures

CHIV High Calibrator

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. Wash out mouth with water. Remove dentures if any. 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.

Protection of first-aiders : CHIV Lite Reagent
CHIV Solid Phase Reagent
CHIV Ancillary Lite Reagent
CHIV Low Calibrator
CHIV High Calibrator

No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed**Over-exposure signs/symptoms**

Eye contact : CHIV Lite Reagent
CHIV Solid Phase Reagent
CHIV Ancillary Lite Reagent
CHIV Low Calibrator
CHIV High Calibrator

Inhalation : CHIV Lite Reagent
CHIV Solid Phase Reagent
CHIV Ancillary Lite Reagent
CHIV Low Calibrator
CHIV High Calibrator

Skin contact : CHIV Lite Reagent
CHIV Solid Phase Reagent
CHIV Ancillary Lite Reagent
CHIV Low Calibrator
CHIV High Calibrator

No specific data.
No specific data.
No specific data.
No specific data.
No specific data.

No specific data.
No specific data.
No specific data.
No specific data.
No specific data.

No specific data.
No specific data.
No specific data.
No specific data.

Adverse symptoms may include the following:
irritation
redness

SECTION 4: First aid measures

Ingestion	: CHIV Lite Reagent	No specific data.
	CHIV Solid Phase Reagent	No specific data.
	CHIV Ancillary Lite Reagent	No specific data.
	CHIV Low Calibrator	No specific data.
	CHIV High Calibrator	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: CHIV Lite Reagent	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	CHIV Solid Phase Reagent	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	CHIV Ancillary Lite Reagent	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	CHIV Low Calibrator	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	CHIV High Calibrator	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: CHIV Lite Reagent	No specific treatment.
	CHIV Solid Phase Reagent	No specific treatment.
	CHIV Ancillary Lite Reagent	No specific treatment.
	CHIV Low Calibrator	No specific treatment.
	CHIV High Calibrator	No specific treatment.
	CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: No specific data.

5.3 Advice for firefighters

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

6.1 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 spilt material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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".

- 6.2 Environmental precautions** : Avoid dispersal of spilt 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).

6.3 Methods and material 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.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 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.

7.2 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limits**

Product/ingredient name	Exposure limit values
CHIV High Calibrator sodium azide	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 0.3 mg/m ³ , (as NaN ₃) 15 minutes. TWA: 0.1 mg/m ³ , (as NaN ₃) 8 hours.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
CHIV High Calibrator sodium azide 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)	DNEL	Long term Oral	16.7 µg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	16.7 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	29 µg/m ³	General population	Systemic
	DNEL	Long term Dermal	46.7 µg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.164 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0.02 mg/m ³	General population	Local
	DNEL	Long term Inhalation	0.02 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.04 mg/m ³	General population	Local
	DNEL	Short term Inhalation	0.04 mg/m ³	Workers	Local
	DNEL	Long term Oral	0.09 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.11 mg/kg bw/day	General population	Systemic

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

SECTION 8: Exposure controls/personal protection

- 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.
- 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.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties**Appearance**

Physical state	: CHIV Lite Reagent	Liquid.
	: CHIV Solid Phase Reagent	Liquid.
	: CHIV Ancillary Lite Reagent	Liquid.
	: CHIV Low Calibrator	Liquid.
	: CHIV High Calibrator	Liquid.
Colour	: CHIV Lite Reagent	Amber.
	: CHIV Solid Phase Reagent	Amber.
	: CHIV Ancillary Lite Reagent	Amber.
	: CHIV Low Calibrator	Amber.
	: CHIV High Calibrator	Amber.
Odour	: CHIV Lite Reagent	Odourless.
	: CHIV Solid Phase Reagent	Odourless.
	: CHIV Ancillary Lite Reagent	Odourless.
	: CHIV Low Calibrator	Odourless.
	: CHIV High Calibrator	Odourless.
Odour threshold	: Not relevant/applicable due to nature of the product.	
Melting point/freezing point	: Not relevant/applicable due to nature of the product.	
Softening point	: Not relevant/applicable due to nature of the product.	
Sublimation temperature	: Not relevant/applicable due to nature of the product.	
Initial boiling point and boiling range	: CHIV Lite Reagent	Not available.
	: CHIV Solid Phase Reagent	Not available.
	: CHIV Ancillary Lite Reagent	Not available.
	: CHIV Low Calibrator	Not available.
	: CHIV High Calibrator	Not available.

SECTION 9: Physical and chemical properties

Flammability (solid, gas)	: CHIV Lite Reagent	Not relevant/applicable due to nature of the product.
	CHIV Solid Phase Reagent	Not relevant/applicable due to nature of the product.
	CHIV Ancillary Lite Reagent	Not relevant/applicable due to nature of the product.
	CHIV Low Calibrator	Not relevant/applicable due to nature of the product.
	CHIV High Calibrator	Not relevant/applicable due to nature of the product.
Upper/lower flammability or explosive limits	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.
Flash point	: CHIV Lite Reagent	[Product does not sustain combustion.]
	CHIV Solid Phase Reagent	[Product does not sustain combustion.]
	CHIV Ancillary Lite Reagent	[Product does not sustain combustion.]
	CHIV Low Calibrator	[Product does not sustain combustion.]
	CHIV High Calibrator	[Product does not sustain combustion.]

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
CHIV Lite Reagent						
ethanol	9.7	49.5	Abel-Pensky	17.778	64	
CHIV Solid Phase Reagent						
ethanol	9.7	49.5	Abel-Pensky	17.778	64	
CHIV Ancillary Lite Reagent						
ethanol	9.7	49.5	Abel-Pensky	17.778	64	
CHIV High Calibrator						
triethyl orthoformate	35	95				

Auto-ignition temperature :

Ingredient name	°C	°F	Method
CHIV Lite Reagent			
ethanol	455	851	DIN 51794
CHIV Solid Phase Reagent			
ethanol	455	851	DIN 51794
CHIV Ancillary Lite Reagent			
ethanol	455	851	DIN 51794
CHIV Low Calibrator			
sodium azide	309	588.2	EU A.16
CHIV High Calibrator			
sodium azide	309	588.2	EU A.16

Decomposition temperature : Not relevant/applicable due to nature of the product.

SECTION 9: Physical and chemical properties

pH	:	CHIV Lite Reagent	7.4
		CHIV Solid Phase Reagent	7.3
		CHIV Ancillary Lite Reagent	7.4
		CHIV Low Calibrator	7.4
		CHIV High Calibrator	7.4
Viscosity	:	CHIV Lite Reagent	Not available.
		CHIV Solid Phase Reagent	Not available.
		CHIV Ancillary Lite Reagent	Not available.
		CHIV Low Calibrator	Not available.
		CHIV High Calibrator	Not available.
Solubility(ies)	:		
Not available.			
Solubility in water	:	Not relevant/applicable due to nature of the product.	
Miscible with water	:	Not relevant/applicable due to nature of the product.	
Partition coefficient: n-octanol/ water	:	Not relevant/applicable due to nature of the product.	
Vapour pressure	:		

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
CHIV Lite Reagent						
ethanol	42.95	5.7				
CHIV Solid Phase Reagent						
ethanol	42.95	5.7				
CHIV Ancillary Lite Reagent						
ethanol	42.95	5.7				
CHIV Low Calibrator						
sodium azide	0.0075	0.001				
CHIV High Calibrator						
water	23.8	3.2				

Evaporation rate	:	Not relevant/applicable due to nature of the product.	
Relative density	:	CHIV Lite Reagent	1.04
		CHIV Solid Phase Reagent	1.04
		CHIV Ancillary Lite Reagent	1.04
		CHIV Low Calibrator	1.04
		CHIV High Calibrator	1.04
Density	:	CHIV Lite Reagent	Not available.
		CHIV Solid Phase Reagent	Not available.
		CHIV Ancillary Lite Reagent	Not available.
		CHIV Low Calibrator	Not available.
		CHIV High Calibrator	Not available.
Vapour density	:	CHIV Lite Reagent	Not available.
		CHIV Solid Phase Reagent	Not available.
		CHIV Ancillary Lite Reagent	Not available.
		CHIV Low Calibrator	Not available.
		CHIV High Calibrator	Not available.
Explosive properties	:	CHIV Lite Reagent	Not available.
		CHIV Solid Phase Reagent	Not available.
		CHIV Ancillary Lite Reagent	Not available.
		CHIV Low Calibrator	Not available.
		CHIV High Calibrator	Not available.

SECTION 9: Physical and chemical properties

Oxidising properties	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

Fire point	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.

Burning time : Not relevant/applicable due to nature of the product.

Fundamental burning velocity : Not relevant/applicable due to nature of the product.

Burning rate : Not relevant/applicable due to nature of the product.

SADT : Not relevant/applicable due to nature of the product.

SAPT : Not relevant/applicable due to nature of the product.

Heat of reaction : Not relevant/applicable due to nature of the product.

Heat of combustion : Not relevant/applicable due to nature of the product.

Flow time (ISO 2431) : Not relevant/applicable due to nature of the product.

Molecular weight : Not relevant/applicable due to nature of the product.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
CHIV Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	LD50 Oral	Rat	1800 mg/kg	-
CHIV Solid Phase Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	LD50 Oral	Rat	1800 mg/kg	-
CHIV Ancillary Lite				

SECTION 11: Toxicological information

Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	LD50 Oral	Rat	1800 mg/kg	-
CHIV High Calibrator sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 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	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not available. Not available. Not available. Not available. Not available.
---------------------------	---	--

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
CHIV Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	1800	N/A	N/A	N/A	N/A
CHIV Solid Phase Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	1800	N/A	N/A	N/A	N/A
CHIV Ancillary Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	1800	N/A	N/A	N/A	N/A
CHIV High Calibrator sodium azide 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)	27 53	20 50	N/A N/A	N/A 0.5	N/A N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
CHIV Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Eyes - Moderate irritant	Rabbit	-	24 hours 10 uL	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
CHIV Solid Phase Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Eyes - Moderate irritant	Rabbit	-	24 hours 10 uL	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
CHIV Ancillary Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-	Eyes - Moderate irritant	Rabbit	-	24 hours 10	-

SECTION 11: Toxicological information

(1,1,3,3-tetramethylbutyl) phenyl]-ω-hydroxy-	Skin - Mild irritant	Rabbit	-	uL 24 hours 500 uL	-
CHIV High Calibrator 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 %	-

Conclusion/Summary

Skin	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not available. Not available. Not available. Not available. Not available.
Eyes	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not available. Not available. Not available. Not available. Not available.
Respiratory	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not available. Not available. Not available. Not available. Not available.

Sensitisation**Conclusion/Summary**

Skin	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not available. Not available. Not available. Not available. Not available.
Respiratory	: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not available. Not available. Not available. Not available. Not available.

Mutagenicity**Conclusion/Summary**

: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not available. Not available. Not available. Not available. Not available.
---	--

Carcinogenicity**Conclusion/Summary**

: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not available. Not available. Not available. Not available. Not available.
---	--

Reproductive toxicity**Conclusion/Summary**

: CHIV Lite Reagent CHIV Solid Phase Reagent CHIV Ancillary Lite Reagent CHIV Low Calibrator CHIV High Calibrator	Not available. Not available. Not available. Not available. Not available.
---	--

Teratogenicity

SECTION 11: Toxicological information

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.

Potential acute health effects

Eye contact	: CHIV Lite Reagent	No known significant effects or critical hazards.
	CHIV Solid Phase Reagent	No known significant effects or critical hazards.
	CHIV Ancillary Lite Reagent	No known significant effects or critical hazards.
	CHIV Low Calibrator	No known significant effects or critical hazards.
	CHIV High Calibrator	No known significant effects or critical hazards.
Inhalation	: CHIV Lite Reagent	No known significant effects or critical hazards.
	CHIV Solid Phase Reagent	No known significant effects or critical hazards.
	CHIV Ancillary Lite Reagent	No known significant effects or critical hazards.
	CHIV Low Calibrator	No known significant effects or critical hazards.
	CHIV High Calibrator	No known significant effects or critical hazards.
Skin contact	: CHIV Lite Reagent	No known significant effects or critical hazards.
	CHIV Solid Phase Reagent	No known significant effects or critical hazards.
	CHIV Ancillary Lite Reagent	No known significant effects or critical hazards.
	CHIV Low Calibrator	No known significant effects or critical hazards.
	CHIV High Calibrator	May cause an allergic skin reaction.
Ingestion	: CHIV Lite Reagent	No known significant effects or critical hazards.
	CHIV Solid Phase Reagent	No known significant effects or critical hazards.
	CHIV Ancillary Lite Reagent	No known significant effects or critical hazards.
	CHIV Low Calibrator	No known significant effects or critical hazards.
	CHIV High Calibrator	No known significant effects or critical hazards.

SECTION 11: Toxicological information**Symptoms related to the physical, chemical and toxicological characteristics**

Eye contact	: CHIV Lite Reagent	No specific data.
	CHIV Solid Phase Reagent	No specific data.
	CHIV Ancillary Lite Reagent	No specific data.
	CHIV Low Calibrator	No specific data.
	CHIV High Calibrator	No specific data.
Inhalation	: CHIV Lite Reagent	No specific data.
	CHIV Solid Phase Reagent	No specific data.
	CHIV Ancillary Lite Reagent	No specific data.
	CHIV Low Calibrator	No specific data.
	CHIV High Calibrator	No specific data.
Skin contact	: CHIV Lite Reagent	No specific data.
	CHIV Solid Phase Reagent	No specific data.
	CHIV Ancillary Lite Reagent	No specific data.
	CHIV Low Calibrator	No specific data.
	CHIV High Calibrator	Adverse symptoms may include the following: irritation redness
Ingestion	: CHIV Lite Reagent	No specific data.
	CHIV Solid Phase Reagent	No specific data.
	CHIV Ancillary Lite Reagent	No specific data.
	CHIV Low Calibrator	No specific data.
	CHIV High Calibrator	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Short term exposure**

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

Long term exposure

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

Potential chronic health effects

Not available.

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

SECTION 11: Toxicological information

General	: CHIV Lite Reagent	No known significant effects or critical hazards.
	CHIV Solid Phase Reagent	No known significant effects or critical hazards.
	CHIV Ancillary Lite Reagent	No known significant effects or critical hazards.
	CHIV Low Calibrator	No known significant effects or critical hazards.
	CHIV High Calibrator	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: CHIV Lite Reagent	No known significant effects or critical hazards.
	CHIV Solid Phase Reagent	No known significant effects or critical hazards.
	CHIV Ancillary Lite Reagent	No known significant effects or critical hazards.
	CHIV Low Calibrator	No known significant effects or critical hazards.
	CHIV High Calibrator	No known significant effects or critical hazards.
Mutagenicity	: CHIV Lite Reagent	No known significant effects or critical hazards.
	CHIV Solid Phase Reagent	No known significant effects or critical hazards.
	CHIV Ancillary Lite Reagent	No known significant effects or critical hazards.
	CHIV Low Calibrator	No known significant effects or critical hazards.
	CHIV High Calibrator	No known significant effects or critical hazards.
Reproductive toxicity	: CHIV Lite Reagent	No known significant effects or critical hazards.
	CHIV Solid Phase Reagent	No known significant effects or critical hazards.
	CHIV Ancillary Lite Reagent	No known significant effects or critical hazards.
	CHIV Low Calibrator	No known significant effects or critical hazards.
	CHIV High Calibrator	No known significant effects or critical hazards.
Interactive effects	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.
<u>Toxicokinetics</u>		
Absorption	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.
Distribution	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.

SECTION 11: Toxicological information

Metabolism	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.
Elimination	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.
Other information	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.

SECTION 12: Ecological information**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
CHIV Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
CHIV Solid Phase Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
CHIV Ancillary Lite Reagent Poly(oxy-1,2-ethanediyl), α-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
CHIV High Calibrator sodium azide	Acute EC50 9200 µg/l Marine water	Algae - Giant kelp - Macrocystis pyrifera	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - Water flea - Simocephalus serrulatus - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - Water flea - Daphnia pulex - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Giant kelp - Macrocystis pyrifera	96 hours

SECTION 12: Ecological information

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

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.
Mobility	: CHIV Lite Reagent	Not available.
	CHIV Solid Phase Reagent	Not available.
	CHIV Ancillary Lite Reagent	Not available.
	CHIV Low Calibrator	Not available.
	CHIV High Calibrator	Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Methods of disposal	: The generation of waste should be avoided or minimised 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.
Hazardous waste	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC. Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

Packaging

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information**ADR/RID**

14.1 UN number	CHIV Lite Reagent	Not regulated.
	CHIV Solid Phase Reagent	Not regulated.
	CHIV Ancillary Lite Reagent	Not regulated.
	CHIV Low Calibrator	Not regulated.
	CHIV High Calibrator	Not regulated.
14.2 UN proper shipping name	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-
14.3 Transport hazard class(es)	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-
14.4 Packing group	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-
14.5 Environmental hazards	CHIV Lite Reagent	No.
	CHIV Solid Phase Reagent	No.
	CHIV Ancillary Lite Reagent	No.
	CHIV Low Calibrator	No.
	CHIV High Calibrator	No.
Additional information	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-

ADN

14.1 UN number	CHIV Lite Reagent	Not regulated.
	CHIV Solid Phase Reagent	Not regulated.
	CHIV Ancillary Lite Reagent	Not regulated.
	CHIV Low Calibrator	Not regulated.
	CHIV High Calibrator	Not regulated.
14.2 UN proper shipping name	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-
14.3 Transport hazard class(es)	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-

SECTION 14: Transport information

14.4 Packing group	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-

14.5 Environmental hazards	CHIV Lite Reagent	No.
	CHIV Solid Phase Reagent	No.
	CHIV Ancillary Lite Reagent	No.
	CHIV Low Calibrator	No.
	CHIV High Calibrator	No.

Additional information	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-

IMDG

14.1 UN number	CHIV Lite Reagent	Not regulated.
	CHIV Solid Phase Reagent	Not regulated.
	CHIV Ancillary Lite Reagent	Not regulated.
	CHIV Low Calibrator	Not regulated.
	CHIV High Calibrator	Not regulated.

14.2 UN proper shipping name	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-

14.3 Transport hazard class(es)	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-

14.4 Packing group	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-

14.5 Environmental hazards	CHIV Lite Reagent	No.
	CHIV Solid Phase Reagent	No.
	CHIV Ancillary Lite Reagent	No.
	CHIV Low Calibrator	No.
	CHIV High Calibrator	No.

Additional information	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-

IATA

14.1 UN number	CHIV Lite Reagent	Not regulated.
	CHIV Solid Phase Reagent	Not regulated.
	CHIV Ancillary Lite Reagent	Not regulated.
	CHIV Low Calibrator	Not regulated.
	CHIV High Calibrator	Not regulated.

SECTION 14: Transport information

14.2 UN proper shipping name	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-
14.3 Transport hazard class(es)	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-
14.4 Packing group	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-
14.5 Environmental hazards	CHIV Lite Reagent	No.
	CHIV Solid Phase Reagent	No.
	CHIV Ancillary Lite Reagent	No.
	CHIV Low Calibrator	No.
	CHIV High Calibrator	No.
Additional information	CHIV Lite Reagent	-
	CHIV Solid Phase Reagent	-
	CHIV Ancillary Lite Reagent	-
	CHIV Low Calibrator	-
	CHIV High Calibrator	-
14.6 Special precautions for user		
	CHIV Lite Reagent	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
	CHIV Solid Phase Reagent	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
	CHIV Ancillary Lite Reagent	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
	CHIV Low Calibrator	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
	CHIV High Calibrator	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 14: Transport information**14.7 Transport in bulk according to IMO instruments**

Not applicable.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK (GB) /REACH****Annex XIV - List of substances subject to authorisation****Annex XIV**

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
CHIV Lite Reagent Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Listed	42	1/1/2021
CHIV Solid Phase Reagent Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Listed	42	1/1/2021
CHIV Ancillary Lite Reagent Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Listed	42	1/1/2021

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
CHIV Lite Reagent Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Candidate	-	12/19/2012
CHIV Solid Phase Reagent Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Candidate	-	12/19/2012
CHIV Ancillary Lite Reagent Substance of equivalent concern for environment	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated covering well-defined substances and UVCB substances, polymers and homologues	Candidate	-	12/19/2012

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

SECTION 15: Regulatory information

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: CHIV Lite Reagent	Not applicable.
	CHIV Solid Phase Reagent	Not applicable.
	CHIV Ancillary Lite Reagent	Not applicable.
	CHIV Low Calibrator	Not applicable.
	CHIV High Calibrator	Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air	: CHIV Lite Reagent	Not listed
	CHIV Solid Phase Reagent	Not listed
	CHIV Ancillary Lite Reagent	Not listed
	CHIV Low Calibrator	Not listed
	CHIV High Calibrator	Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: CHIV Lite Reagent	Not listed
	CHIV Solid Phase Reagent	Not listed
	CHIV Ancillary Lite Reagent	Not listed
	CHIV Low Calibrator	Not listed
	CHIV High Calibrator	Not listed

International regulations**Montreal Protocol**

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment : Not applicable.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate
	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

SECTION 16: Other information

Classification	Justification
CHIV High Calibrator Skin Sens. 1, H317 Aquatic Chronic 3, H412	Calculation method Calculation method

Full text of abbreviated H statements

CHIV Lite Reagent	
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
CHIV Solid Phase Reagent	
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
CHIV Ancillary Lite Reagent	
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
CHIV High Calibrator	
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.
EUH071	Corrosive to the respiratory tract.

Full text of classifications

CHIV Lite Reagent	
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
CHIV Solid Phase Reagent	
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
CHIV Ancillary Lite Reagent	
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
CHIV High Calibrator	
Acute Tox. 1	ACUTE TOXICITY - Category 1
Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1

SECTION 16: Other information

Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A

Date of printing : 12/13/2022

Date of issue/ Date of revision : 12/13/2022

Date of previous issue : No previous validation

Version : 1

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.