

# SAFETY DATA SHEET

Rapidpoint 405 Measurement Cartridge BG+COox

SDS no.:

130520

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

### 1.1 Product identifier

**Product name** : Rapidpoint 405 Measurement Cartridge BG+COox  
**Product code** : 130520; 130521; 05768789; 07846760; 10323175; 10327073; 10283221

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

<b>Identified uses</b>	Inner Fill Solution	Diagnostic agents.
	RCX Reagent	Diagnostic agents.
	200 Cal Reagent	Diagnostic agents.
	Zero Cal	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

<b>Product definition</b>	Inner Fill Solution	Mixture
	RCX Reagent	Mixture
	200 Cal Reagent	Mixture
	Zero Cal	Mixture

#### Classification according to UK CLP/GHS

##### **Inner Fill Solution**

Aquatic Chronic 3, H412

##### **RCX Reagent**

Skin Sens. 1, H317

The product is 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

<b>Signal word</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	No signal word. Warning No signal word. No signal word.
<b>Hazard statements</b>	: Inner Fill Solution  RCX Reagent  200 Cal Reagent  Zero Cal	H412 - Harmful to aquatic life with long lasting effects. H317 - May cause an allergic skin reaction. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: Inner Fill Solution RCX Reagent  200 Cal Reagent Zero Cal	P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. Not applicable. Not applicable.
<b>Response</b>	: Inner Fill Solution RCX Reagent  200 Cal Reagent Zero Cal	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. Not applicable. Not applicable.
<b>Storage</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: Inner Fill Solution  RCX Reagent 200 Cal Reagent Zero Cal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent  Zero Cal	Not applicable. Not applicable. Contains 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). May produce an allergic reaction. Safety data sheet available on request. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not applicable. Not applicable. Not applicable. Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** :

## SECTION 2: Hazards identification

Inner Fill Solution	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
RCX Reagent	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
200 Cal Reagent	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Zero Cal	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: Inner Fill Solution : RCX Reagent : 200 Cal Reagent : Zero Cal None known. None known. None known. None known.
<b>Additional information</b>	: Not available. Not available.

## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	: Inner Fill Solution : RCX Reagent : 200 Cal Reagent : Zero Cal	Mixture Mixture Mixture Mixture
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Product/ingredient name	Identifiers	%	Classification	Type
<b>Inner Fill Solution</b> silver chloride	EC: 232-033-3 CAS: 7783-90-6	<0.025	Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=100)	[1] [2]
<b>RCX Reagent</b> 3(2H)-Isothiazolone, 2-methyl-	EC: 220-239-6 CAS: 2682-20-4	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1]
sodium hydroxide	EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≤0.1	EUH071 Skin Corr. 1A, H314 Eye Dam. 1, H318  <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: Inner Fill Solution	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.
	RCX Reagent	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.
	200 Cal 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.
	Zero Cal	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: Inner Fill Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	RCX Reagent	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.
	200 Cal Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Zero Cal	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.
<b>Skin contact</b>	: Inner Fill Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	RCX Reagent	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

**SECTION 4: First aid measures**

		<p>symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p> <p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
	200 Cal Reagent	
	Zero Cal	
<b>Ingestion</b>	: Inner Fill Solution	<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.</p>
	RCX Reagent	<p>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.</p>
	200 Cal 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>
	Zero Cal	<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>
<b>Protection of first-aiders</b>	: Inner Fill Solution	<p>No action shall be taken involving any personal risk or without suitable training.</p>
	RCX Reagent	<p>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.</p>
	200 Cal Reagent	<p>No action shall be taken involving any personal risk or without suitable training.</p>
	Zero Cal	<p>No action shall be taken involving any personal risk or without suitable training.</p>

## SECTION 4: First aid measures

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: Inner Fill Solution	No specific data.
	RCX Reagent	No specific data.
	200 Cal Reagent	No specific data.
	Zero Cal	No specific data.
<b>Inhalation</b>	: Inner Fill Solution	No specific data.
	RCX Reagent	No specific data.
	200 Cal Reagent	No specific data.
	Zero Cal	No specific data.
<b>Skin contact</b>	: Inner Fill Solution	No specific data.
	RCX Reagent	Adverse symptoms may include the following: irritation redness
	200 Cal Reagent	No specific data.
	Zero Cal	No specific data.
<b>Ingestion</b>	: Inner Fill Solution	No specific data.
	RCX Reagent	No specific data.
	200 Cal Reagent	No specific data.
	Zero Cal	No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	: Inner Fill Solution	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RCX Reagent	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	200 Cal Reagent	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Zero Cal	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.
<b>Specific treatments</b>	: Inner Fill Solution	No specific treatment.
	RCX Reagent	No specific treatment.
	200 Cal Reagent	No specific treatment.
	Zero Cal	No specific treatment.
	Inner Fill Solution	Not available.
	RCX Reagent	Not available.
	200 Cal Reagent	Not available.
	Zero Cal	Not available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

<b>Hazards from the substance or mixture</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
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## SECTION 5: Firefighting measures

**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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Approach the release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilt product. 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## SECTION 7: Handling and storage

**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
<b>Inner Fill Solution</b> silver chloride	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [silver (soluble compounds)]</b> TWA: 0.01 mg/m <sup>3</sup> , (as Ag) 8 hours.
<b>RCX Reagent</b> sodium hydroxide	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> STEL: 2 mg/m <sup>3</sup> 15 minutes.

**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
<b>Inner Fill Solution</b> silver chloride	DNEL	Long term Inhalation	0.053 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	0.13 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	1.59 mg/kg bw/day	General population	Systemic
<b>RCX Reagent</b> 3(2H)-Isothiazolone, 2-methyl-	DNEL	Long term Inhalation	0.021 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	0.021 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	0.027 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0.043 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	0.043 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Oral	0.053 mg/	General	Systemic





## SECTION 9: Physical and chemical properties

<b>Colour</b>	: Inner Fill Solution	Colourless.
	RCX Reagent	Red.
	200 Cal Reagent	Colourless.
	Zero Cal	Colourless.
<b>Odour</b>	: Inner Fill Solution	Odourless.
	RCX Reagent	Odourless.
	200 Cal Reagent	Odourless.
	Zero Cal	Odourless.
<b>Odour threshold</b>	: Not relevant/applicable due to nature of the product.	
<b>Melting point/freezing point</b>	: Not relevant/applicable due to nature of the product.	
<b>Softening point</b>	: Not relevant/applicable due to nature of the product.	
<b>Sublimation temperature</b>	: Not relevant/applicable due to nature of the product.	
<b>Initial boiling point and boiling range</b>	: Inner Fill Solution	Not available.
	RCX Reagent	Not available.
	200 Cal Reagent	Not available.
	Zero Cal	Not available.
<b>Flammability (solid, gas)</b>	: Inner Fill Solution	Not relevant/applicable due to nature of the product.
	RCX Reagent	Not relevant/applicable due to nature of the product.
	200 Cal Reagent	Not relevant/applicable due to nature of the product.
	Zero Cal	Not relevant/applicable due to nature of the product.
<b>Upper/lower flammability or explosive limits</b>	: Inner Fill Solution	Not available.
	RCX Reagent	Not available.
	200 Cal Reagent	Not available.
	Zero Cal	Not available.
<b>Flash point</b>	: Inner Fill Solution	[Product does not sustain combustion.]
	RCX Reagent	[Product does not sustain combustion.]
	200 Cal Reagent	[Product does not sustain combustion.]
	Zero Cal	[Product does not sustain combustion.]

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>Inner Fill Solution</b>						
Octadecan-1-ol, ethoxylated	193.5	380.3				
<b>RCX Reagent</b>						
Octadecan-1-ol, ethoxylated	193.5	380.3				
<b>200 Cal Reagent</b>						
triethyl orthoformate	35	95				
<b>Zero Cal</b>						
Octadecan-1-ol, ethoxylated	193.5	380.3				

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
<b>RCX Reagent</b>			
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1)	1010	1850	
<b>200 Cal Reagent</b>			
1,1'-oxydipropan-2-ol	310	590	

## SECTION 9: Physical and chemical properties

<b>Zero Cal</b>			
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1)	1010	1850	

<b>Decomposition temperature</b>	: Not relevant/applicable due to nature of the product.
<b>pH</b>	: Inner Fill Solution Not applicable. RCX Reagent 6.8 200 Cal Reagent 6.82 Zero Cal 7.4
<b>Viscosity</b>	: Inner Fill Solution Not available. RCX Reagent Not available. 200 Cal Reagent Not available. Zero Cal Not available.
<b>Solubility(ies)</b>	: Not available.
<b>Solubility in water</b>	: Not relevant/applicable due to nature of the product.
<b>Miscible with water</b>	: Not relevant/applicable due to nature of the product.
<b>Partition coefficient: n-octanol/ water</b>	: Not relevant/applicable due to nature of the product.
<b>Vapour pressure</b>	:

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>Inner Fill Solution</b>						
water	23.8	3.2				
<b>RCX Reagent</b>						
water	23.8	3.2				
<b>200 Cal Reagent</b>						
water	23.8	3.2				
<b>Zero Cal</b>						
water	23.8	3.2				

<b>Evaporation rate</b>	: Not relevant/applicable due to nature of the product.
<b>Relative density</b>	: Inner Fill Solution >1 RCX Reagent <1 200 Cal Reagent 1 Zero Cal <1
<b>Density</b>	: Inner Fill Solution Not available. RCX Reagent Not available. 200 Cal Reagent Not available. Zero Cal Not available.
<b>Vapour density</b>	: Inner Fill Solution Not available. RCX Reagent Not available. 200 Cal Reagent Not available. Zero Cal Not available.
<b>Explosive properties</b>	: Inner Fill Solution Not available. RCX Reagent Not available. 200 Cal Reagent Not available. Zero Cal Not available.
<b>Oxidising properties</b>	: Inner Fill Solution Not available. RCX Reagent Not available. 200 Cal Reagent Not available. Zero Cal Not available.

## SECTION 9: Physical and chemical properties

### Particle characteristics

**Median particle size** : Not applicable.

### 9.2 Other information

**Fire point** : Inner Fill Solution Not available.  
 RCX Reagent Not available.  
 200 Cal Reagent Not available.  
 Zero Cal 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

**Conclusion/Summary** : Inner Fill Solution Not available.  
 RCX Reagent Not available.  
 200 Cal Reagent Not available.  
 Zero Cal 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)
RCX Reagent 3(2H)-Isothiazolone, 2-methyl-	100	300	N/A	0.5	N/A

#### Irritation/Corrosion

## SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
RCX Reagent sodium hydroxide	Eyes - Mild irritant	Rabbit	-	400 ug	-
	Eyes - Severe irritant	Monkey	-	24 hours 1 %	-
	Eyes - Severe irritant	Rabbit	-	1 %	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes	-
	Eyes - Severe irritant	Rabbit	-	1 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 ug	-
	Skin - Mild irritant	Human	-	24 hours 2 %	-
Skin - Severe irritant	Rabbit	-	24 hours 500 mg	-	

### Conclusion/Summary

<b>Skin</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
<b>Eyes</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
<b>Respiratory</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.

### Sensitisation

#### Conclusion/Summary

<b>Skin</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
<b>Respiratory</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.

### Mutagenicity

#### Conclusion/Summary

<b>Conclusion/Summary</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
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### Carcinogenicity

#### Conclusion/Summary

<b>Conclusion/Summary</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
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### Reproductive toxicity

#### Conclusion/Summary

<b>Conclusion/Summary</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
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### Teratogenicity

#### Conclusion/Summary

<b>Conclusion/Summary</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
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### Specific target organ toxicity (single exposure)

Not available.

## SECTION 11: Toxicological information

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Inner Fill Solution  
RCX Reagent  
200 Cal Reagent  
Zero Cal

Not available.  
Not available.  
Not available.  
Not available.

### Potential acute health effects

**Eye contact** : Inner Fill Solution  
  
RCX Reagent  
  
200 Cal Reagent  
  
Zero Cal

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.

**Inhalation** : Inner Fill Solution  
  
RCX Reagent  
  
200 Cal Reagent  
  
Zero Cal

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.

**Skin contact** : Inner Fill Solution  
  
RCX Reagent  
200 Cal Reagent  
  
Zero Cal

No known significant effects or critical hazards.  
May cause an allergic skin reaction.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

**Ingestion** : Inner Fill Solution  
  
RCX Reagent  
  
200 Cal Reagent  
  
Zero Cal

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.

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

**Eye contact** : Inner Fill Solution  
RCX Reagent  
200 Cal Reagent  
Zero Cal

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

**Inhalation** : Inner Fill Solution  
RCX Reagent  
200 Cal Reagent  
Zero Cal

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

**Skin contact** : Inner Fill Solution  
RCX Reagent  
  
200 Cal Reagent  
Zero Cal

No specific data.  
Adverse symptoms may include the following:  
irritation  
redness  
No specific data.  
No specific data.

## SECTION 11: Toxicological information

<b>Ingestion</b>	: Inner Fill Solution	No specific data.
	RCX Reagent	No specific data.
	200 Cal Reagent	No specific data.
	Zero Cal	No specific data.

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

#### Short term exposure

<b>Potential immediate effects</b>	: Inner Fill Solution	Not available.
	RCX Reagent	Not available.
	200 Cal Reagent	Not available.
	Zero Cal	Not available.
<b>Potential delayed effects</b>	: Inner Fill Solution	Not available.
	RCX Reagent	Not available.
	200 Cal Reagent	Not available.
	Zero Cal	Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: Inner Fill Solution	Not available.
	RCX Reagent	Not available.
	200 Cal Reagent	Not available.
	Zero Cal	Not available.
<b>Potential delayed effects</b>	: Inner Fill Solution	Not available.
	RCX Reagent	Not available.
	200 Cal Reagent	Not available.
	Zero Cal	Not available.

#### Potential chronic health effects

Not available.

<b>Conclusion/Summary</b>	: Inner Fill Solution	Not available.
	RCX Reagent	Not available.
	200 Cal Reagent	Not available.
	Zero Cal	Not available.

<b>General</b>	: Inner Fill Solution	No known significant effects or critical hazards.
	RCX Reagent	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
	200 Cal Reagent	No known significant effects or critical hazards.
	Zero Cal	No known significant effects or critical hazards.

<b>Carcinogenicity</b>	: Inner Fill Solution	No known significant effects or critical hazards.
	RCX Reagent	No known significant effects or critical hazards.
	200 Cal Reagent	No known significant effects or critical hazards.
	Zero Cal	No known significant effects or critical hazards.

<b>Mutagenicity</b>	: Inner Fill Solution	No known significant effects or critical hazards.
	RCX Reagent	No known significant effects or critical hazards.
	200 Cal Reagent	No known significant effects or critical hazards.
	Zero Cal	No known significant effects or critical hazards.

## SECTION 11: Toxicological information

<b>Reproductive toxicity</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	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.
<b>Interactive effects</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
<b><u>Toxicokinetics</u></b>		
<b>Absorption</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
<b>Distribution</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
<b>Metabolism</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
<b>Elimination</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
<b>Other information</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>Inner Fill Solution</b> silver chloride	Acute LC50 5.3 µg/l Fresh water	Fish - Guntea Loach - Lepidocephalichthys guntea	96 hours
<b>RCX Reagent</b> 3(2H)-Isothiazolone, 2-methyl-	Acute EC50 0.18 ppm Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss	96 hours
sodium hydroxide	Acute EC50 40.38 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 125 ppm Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours

<b>Conclusion/Summary</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
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### 12.2 Persistence and degradability



## SECTION 12: Ecological information

<b>Conclusion/Summary</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
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### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Inner Fill Solution silver chloride	-	70	low

### 12.4 Mobility in soil

<b>Soil/water partition coefficient (K<sub>oc</sub>)</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. Not available.
<b>Mobility</b>	: Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not available. Not available. Not available. 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** : The classification of the product may meet the criteria for a hazardous waste.

#### 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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

<b>14.1 UN number</b>	Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	Not regulated. Not regulated. Not regulated. Not regulated.
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<b>14.2 UN proper shipping name</b>	Inner Fill Solution RCX Reagent 200 Cal Reagent Zero Cal	- - - -
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## SECTION 14: Transport information

<b>14.3 Transport hazard class(es)</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-

<b>14.4 Packing group</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-

<b>14.5 Environmental hazards</b>	Inner Fill Solution	No.
	RCX Reagent	No.
	200 Cal Reagent	No.
	Zero Cal	No.

<b>Additional information</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-

### ADN

<b>14.1 UN number</b>	Inner Fill Solution	Not regulated.
	RCX Reagent	Not regulated.
	200 Cal Reagent	Not regulated.
	Zero Cal	Not regulated.

<b>14.2 UN proper shipping name</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-

<b>14.3 Transport hazard class(es)</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-

<b>14.4 Packing group</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-

<b>14.5 Environmental hazards</b>	Inner Fill Solution	No.
	RCX Reagent	No.
	200 Cal Reagent	No.
	Zero Cal	No.

<b>Additional information</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-

### IMDG

<b>14.1 UN number</b>	Inner Fill Solution	Not regulated.
	RCX Reagent	Not regulated.
	200 Cal Reagent	Not regulated.
	Zero Cal	Not regulated.

<b>14.2 UN proper shipping name</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-

## SECTION 14: Transport information

<b>14.3 Transport hazard class(es)</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-
<b>14.4 Packing group</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-
<b>14.5 Environmental hazards</b>	Inner Fill Solution	No.
	RCX Reagent	No.
	200 Cal Reagent	No.
	Zero Cal	No.
<b>Additional information</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-
<b>IATA</b>		
<b>14.1 UN number</b>	Inner Fill Solution	Not regulated.
	RCX Reagent	Not regulated.
	200 Cal Reagent	Not regulated.
	Zero Cal	Not regulated.
<b>14.2 UN proper shipping name</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-
<b>14.3 Transport hazard class(es)</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-
<b>14.4 Packing group</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-
<b>14.5 Environmental hazards</b>	Inner Fill Solution	No.
	RCX Reagent	No.
	200 Cal Reagent	No.
	Zero Cal	No.
<b>Additional information</b>	Inner Fill Solution	-
	RCX Reagent	-
	200 Cal Reagent	-
	Zero Cal	-
<b>14.6 Special precautions for user</b>	Inner Fill Solution	<b>Transport within user's premises:</b> 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.
	RCX Reagent	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that

## SECTION 14: Transport information

200 Cal Reagent

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.

Zero Cal

**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.

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

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

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** : Inner Fill Solution  
RCX Reagent  
200 Cal Reagent  
Zero Cal

Not applicable.  
Not applicable.  
Not applicable.  
Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Inner Fill Solution  
RCX Reagent  
200 Cal Reagent  
Zero Cal

Not listed  
Not listed  
Not listed  
Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Inner Fill Solution  
RCX Reagent  
200 Cal Reagent  
Zero Cal

Not listed  
Not listed  
Not listed  
Not listed

## SECTION 15: Regulatory information

### 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

Classification	Justification
<b>Inner Fill Solution</b> Aquatic Chronic 3, H412	Calculation method
<b>RCX Reagent</b> Skin Sens. 1, H317	Calculation method

### Full text of abbreviated H statements

<b>Inner Fill Solution</b>	
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.
<b>RCX Reagent</b>	
H301	Toxic if swallowed.
H311	Toxic 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.
EUH071	Corrosive to the respiratory tract.

## SECTION 16: Other information

### Full text of classifications

#### Inner Fill Solution

Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

#### RCX Reagent

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A

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