

SAFETY DATA SHEET

AutomaticQC Cartridge Kit

SDS no.:

05293926

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

1.1 Product identifier

Product name : AutomaticQC Cartridge Kit
Product code : 05293926; 120241; 10310323

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

Identified uses :
AutomaticQC Level 1 Diagnostic agents.
AutomaticQC Level 2 Diagnostic agents.
AutomaticQC Level 3 Diagnostic agents.

Restrictions on use : For professional users only.

1.3 Details of the supplier of the safety data sheet

Manufactured/supplied : Siemens Healthcare Diagnostics Limited
Sir William Siemens Square
Newton House
Camberley
Frimley
Surrey
GU16 8QD
UK

Phone: +44 (0) 1276 696000
Fax: +44 (0)1276 696133

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

1.4 Emergency telephone number

Poison Control:
In England and Wales:
NHS Direct – 0845 4647 or 111
In Scotland: NHS 24 – 08454 24 24 24
In the Republic of Ireland: 01 809 2166

CHEMTREC: 0870-8200418 (UK only)
+(353)-19014670 (UK & Ireland)
(International calls to the United Kingdom)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : AutomaticQC Level 1 Mixture
AutomaticQC Level 2 Mixture
AutomaticQC Level 3 Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

AQC Level 1
Skin Sens. 1, H317

AQC Level 2
Aquatic Chronic 3, H412

AQC Level 3
Aquatic Chronic 3, H412

AutomaticQC Cartridge Kit

SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : AQC Level 1 : Not applicable.
 : AQC Level 2 : Not applicable.
 : AQC Level 3 : Not applicable.

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII : AQC Level 1 : Not applicable.
 : AQC Level 2 : Not applicable.
 : AQC Level 3 : Not applicable.
 : AQC Level 1 : P: Not available. B: Not available. T: Not available.
 : AQC Level 2 : P: Not available. B: Not available. T: Not available.
 : AQC Level 3 : P: Not available. B: Not available. T: Not available.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : AQC Level 1 : Not applicable.
 : AQC Level 2 : Not applicable.
 : AQC Level 3 : Not applicable.
 : AQC Level 1 : vP: Not available. vB: Not available.
 : AQC Level 2 : vP: Not available. vB: Not available.
 : AQC Level 3 : vP: Not available. vB: Not available.

Other hazards which do not result in classification : AQC Level 1 : None known.
 : AQC Level 2 : None known.
 : AQC Level 3 : None known.

Additional information : Not available.
 Not available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : AQC Level 1 : Mixture
 : AQC Level 2 : Mixture
 : AQC Level 3 : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
AQC Level 1 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)	CAS: 55965-84-9 Index: 613-167-00-5	<0.06	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
AQC Level 2 2-methyl-2H-isothiazol-3-one	EC: 220-239-6 CAS: 2682-20-4	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	[1]
AQC Level 3 2-methyl-2H-isothiazol-3-one	EC: 220-239-6 CAS: 2682-20-4	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314	[1]

AutomaticQC Cartridge Kit

SECTION 3: Composition/information on ingredients

			Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) See Section 16 for the full text of the H statements declared above.
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures

<p>Eye contact : AQC Level 1</p> <p style="text-align: right;">AQC Level 2</p> <p style="text-align: right;">AQC Level 3</p> <p>Inhalation : AQC Level 1</p> <p style="text-align: right;">AQC Level 2</p>	<p>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.</p> <p>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.</p> <p>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.</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> <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</p>
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AutomaticQC Cartridge Kit

SECTION 4: First aid measures

		<p>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> <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>
	AQC Level 3	
Skin contact	: AQC Level 1	<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>
	AQC Level 2	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
	AQC Level 3	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
Ingestion	: AQC Level 1	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical</p>

SECTION 4: First aid measures

AQC Level 2

attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

AQC Level 3

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : AQC Level 1

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.

AQC Level 2

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.

AQC Level 3

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.

4.2 Most important symptoms and effects, both acute and delayed

SECTION 4: First aid measures

Over-exposure signs/symptoms

Eye contact	: AQC Level 1	No specific data.
	AQC Level 2	No specific data.
	AQC Level 3	No specific data.
Inhalation	: AQC Level 1	No specific data.
	AQC Level 2	No specific data.
	AQC Level 3	No specific data.
Skin contact	: AQC Level 1	Adverse symptoms may include the following: irritation redness
	AQC Level 2	No specific data.
	AQC Level 3	No specific data.
Ingestion	: AQC Level 1	No specific data.
	AQC Level 2	No specific data.
	AQC Level 3	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: AQC Level 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	AQC Level 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	AQC Level 3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: AQC Level 1	No specific treatment.
	AQC Level 2	No specific treatment.
	AQC Level 3	No specific treatment.

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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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). Water polluting material. May be harmful to the environment if released in large quantities.

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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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.
- 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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

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.

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Impervious gloves (e.g. butyl, nitrile, etc.) are recommended if skin contact is possible and for processing operations. Protective gloves must meet the standards in accordance with CEN EN374, ASTM F1001 or international equivalent.

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.

AutomaticQC Cartridge Kit

SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- 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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: AQC Level 1 AQC Level 2 AQC Level 3	Liquid. Liquid. Liquid.
Colour	: AQC Level 1 AQC Level 2 AQC Level 3	Red. Red. Red.
Odour	: AQC Level 1 AQC Level 2 AQC Level 3	Odourless. Odourless. Odourless.
Odour threshold	: AQC Level 1 AQC Level 2 AQC Level 3	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
pH	: AQC Level 1 AQC Level 2 AQC Level 3	7.1 to 7.2 7.3 to 7.4 7.5 to 7.6
Melting point/freezing point	: AQC Level 1 AQC Level 2 AQC Level 3	Not available. Not available. Not available.
Initial boiling point and boiling range	: AQC Level 1 AQC Level 2 AQC Level 3	Not available. Not available. Not available.
Flash point	: AQC Level 1 AQC Level 2 AQC Level 3	Not available. Not available. Not available.
Evaporation rate	: AQC Level 1 AQC Level 2 AQC Level 3	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
Flammability (solid, gas)	: AQC Level 1 AQC Level 2 AQC Level 3	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
Upper/lower flammability or explosive limits	: AQC Level 1 AQC Level 2 AQC Level 3	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.

AutomaticQC Cartridge Kit

SECTION 9: Physical and chemical properties

Vapour pressure	: AQC Level 1	Not relevant/applicable due to nature of the product.
	AQC Level 2	Not relevant/applicable due to nature of the product.
	AQC Level 3	Not relevant/applicable due to nature of the product.
Vapour density	: AQC Level 1	Not relevant/applicable due to nature of the product.
	AQC Level 2	Not relevant/applicable due to nature of the product.
	AQC Level 3	Not relevant/applicable due to nature of the product.
Relative density	: AQC Level 1	>1
	AQC Level 2	>1
	AQC Level 3	>1
Solubility(ies)	: AQC Level 1	Not relevant/applicable due to nature of the product.
	AQC Level 2	Not relevant/applicable due to nature of the product.
	AQC Level 3	Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/ water	: Not relevant/applicable due to nature of the product.	
Auto-ignition temperature	: AQC Level 1	Not relevant/applicable due to nature of the product.
	AQC Level 2	Not relevant/applicable due to nature of the product.
	AQC Level 3	Not relevant/applicable due to nature of the product.
Decomposition temperature	: AQC Level 1	Not relevant/applicable due to nature of the product.
	AQC Level 2	Not relevant/applicable due to nature of the product.
	AQC Level 3	Not relevant/applicable due to nature of the product.
Viscosity	: Not relevant/applicable due to nature of the product.	
Explosive properties	: AQC Level 1	Not relevant/applicable due to nature of the product.
	AQC Level 2	Not relevant/applicable due to nature of the product.
	AQC Level 3	Not relevant/applicable due to nature of the product.
Oxidising properties	: Not relevant/applicable due to nature of the product.	

9.2 Other information

Solubility in water	: AQC Level 1	Not relevant/applicable due to nature of the product.
	AQC Level 2	Not relevant/applicable due to nature of the product.
	AQC Level 3	Not relevant/applicable due to nature of the product.

SECTION 10: Stability and reactivity

10.1 Reactivity	: AQC Level 1	No specific test data related to reactivity available for this product or its ingredients.
	AQC Level 2	No specific test data related to reactivity available for this product or its ingredients.
	AQC Level 3	No specific test data related to reactivity available for this product or its ingredients.

AutomaticQC Cartridge Kit

SECTION 10: Stability and reactivity

ingredients.

10.2 Chemical stability	: AQC Level 1 AQC Level 2 AQC Level 3	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: AQC Level 1 AQC Level 2 AQC Level 3	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: AQC Level 1 AQC Level 2 AQC Level 3	No specific data. No specific data. No specific data.
10.5 Incompatible materials	: AQC Level 1 AQC Level 2 AQC Level 3	No specific data. No specific data. No specific data.
10.6 Hazardous decomposition products	: AQC Level 1 AQC Level 2 AQC Level 3	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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
AQC Level 1 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 : AQC Level 1 Not available.
AQC Level 2 Not available.
AQC Level 3 Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
AQC Level 1 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Skin - Severe irritant	Human	-	0.01 Percent	-

Conclusion/Summary
Skin : AQC Level 1 Not available.
AQC Level 2 Not available.
AQC Level 3 Not available.

AutomaticQC Cartridge Kit

SECTION 11: Toxicological information

Eyes : AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

Respiratory : AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

Sensitisation

Conclusion/Summary

Skin : AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

Respiratory : AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

Mutagenicity

Conclusion/Summary

: AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

Carcinogenicity

Conclusion/Summary

: AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

Reproductive toxicity

Conclusion/Summary

: AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

Teratogenicity

Conclusion/Summary

: AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
AQC Level 2 2-methyl-2H-isothiazol-3-one	Category 3	Not applicable.	Respiratory tract irritation
AQC Level 3 2-methyl-2H-isothiazol-3-one	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

Potential acute health effects

Eye contact : AQC Level 1 No known significant effects or critical hazards.
 AQC Level 2 No known significant effects or critical hazards.
 AQC Level 3 No known significant effects or critical hazards.

SECTION 11: Toxicological information

Inhalation	: AQC Level 1	No known significant effects or critical hazards.
	AQC Level 2	No known significant effects or critical hazards.
	AQC Level 3	No known significant effects or critical hazards.
Skin contact	: AQC Level 1	May cause an allergic skin reaction.
	AQC Level 2	No known significant effects or critical hazards.
	AQC Level 3	No known significant effects or critical hazards.
Ingestion	: AQC Level 1	No known significant effects or critical hazards.
	AQC Level 2	No known significant effects or critical hazards.
	AQC Level 3	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: AQC Level 1	No specific data.
	AQC Level 2	No specific data.
	AQC Level 3	No specific data.
Inhalation	: AQC Level 1	No specific data.
	AQC Level 2	No specific data.
	AQC Level 3	No specific data.
Skin contact	: AQC Level 1	Adverse symptoms may include the following: irritation redness
	AQC Level 2	No specific data.
	AQC Level 3	No specific data.
Ingestion	: AQC Level 1	No specific data.
	AQC Level 2	No specific data.
	AQC Level 3	No specific data.

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

Short term exposure

Potential immediate effects	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.
Potential delayed effects	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.

Long term exposure

Potential immediate effects	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.
Potential delayed effects	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.

AutomaticQC Cartridge Kit

SECTION 11: Toxicological information

General	: AQC Level 1	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
	AQC Level 2	No known significant effects or critical hazards.
	AQC Level 3	No known significant effects or critical hazards.
Carcinogenicity	: AQC Level 1	No known significant effects or critical hazards.
	AQC Level 2	No known significant effects or critical hazards.
	AQC Level 3	No known significant effects or critical hazards.
Mutagenicity	: AQC Level 1	No known significant effects or critical hazards.
	AQC Level 2	No known significant effects or critical hazards.
	AQC Level 3	No known significant effects or critical hazards.
Teratogenicity	: AQC Level 1	No known significant effects or critical hazards.
	AQC Level 2	No known significant effects or critical hazards.
	AQC Level 3	No known significant effects or critical hazards.
Developmental effects	: AQC Level 1	No known significant effects or critical hazards.
	AQC Level 2	No known significant effects or critical hazards.
	AQC Level 3	No known significant effects or critical hazards.
Fertility effects	: AQC Level 1	No known significant effects or critical hazards.
	AQC Level 2	No known significant effects or critical hazards.
	AQC Level 3	No known significant effects or critical hazards.
Interactive effects	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.
<u>Toxicokinetics</u>		
Absorption	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.
Distribution	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.
Metabolism	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.
Elimination	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.
Other information	: AQC Level 1	Not available.
	AQC Level 2	Not available.
	AQC Level 3	Not available.

AutomaticQC Cartridge Kit

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
AQC Level 2 2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water Acute LC50 0.07 ppm Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 96 hours
AQC Level 3 2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water Acute LC50 0.07 ppm Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 96 hours

Conclusion/Summary : AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

12.2 Persistence and degradability

Conclusion/Summary : AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

Mobility : AQC Level 1 Not available.
 AQC Level 2 Not available.
 AQC Level 3 Not available.

12.5 Results of PBT and vPvB assessment

PBT : AQC Level 1 Not applicable.
 AQC Level 2 Not applicable.
 AQC Level 3 Not applicable.

AQC Level 1 P: Not available. B: Not available. T: Not available.
 AQC Level 2 P: Not available. B: Not available. T: Not available.
 AQC Level 3 P: Not available. B: Not available. T: Not available.

vPvB : AQC Level 1 Not applicable.
 AQC Level 2 Not applicable.
 AQC Level 3 Not applicable.

AQC Level 1 vP: Not available. vB: Not available.
 AQC Level 2 vP: Not available. vB: Not available.
 AQC Level 3 vP: Not available. vB: Not available.

12.6 Other adverse effects

: AQC Level 1 No known significant effects or critical hazards.
 AQC Level 2 No known significant effects or critical hazards.
 AQC Level 3 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** : AQC Level 1 The classification of the product may meet the criteria for a hazardous waste.
 AQC Level 2 The classification of the product may meet the criteria for a hazardous waste.
 AQC Level 3 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID

- | | | |
|--|-------------|----------------|
| 14.1 UN number | AQC Level 1 | Not regulated. |
| | AQC Level 2 | Not regulated. |
| | AQC Level 3 | Not regulated. |
| 14.2 UN proper shipping name | AQC Level 1 | - |
| | AQC Level 2 | - |
| | AQC Level 3 | - |
| 14.3 Transport hazard class(es) | AQC Level 1 | - |
| | AQC Level 2 | - |
| | AQC Level 3 | - |
| 14.4 Packing group | AQC Level 1 | - |
| | AQC Level 2 | - |
| | AQC Level 3 | - |
| 14.5 Environmental hazards | AQC Level 1 | No. |
| | AQC Level 2 | No. |
| | AQC Level 3 | No. |
| Additional information | AQC Level 1 | - |
| | AQC Level 2 | - |
| | AQC Level 3 | - |

ADN

- | | | |
|-------------------------------------|-------------|----------------|
| 14.1 UN number | AQC Level 1 | Not regulated. |
| | AQC Level 2 | Not regulated. |
| | AQC Level 3 | Not regulated. |
| 14.2 UN proper shipping name | AQC Level 1 | - |
| | AQC Level 2 | - |
| | AQC Level 3 | - |

AutomaticQC Cartridge Kit

SECTION 14: Transport information

14.3 Transport hazard class(es)	AQC Level 1	-
	AQC Level 2	-
	AQC Level 3	-
14.4 Packing group	AQC Level 1	-
	AQC Level 2	-
	AQC Level 3	-
14.5 Environmental hazards	AQC Level 1	No.
	AQC Level 2	No.
	AQC Level 3	No.
Additional information	AQC Level 1	-
	AQC Level 2	-
	AQC Level 3	-

IMDG

14.1 UN number	AQC Level 1	Not regulated.
	AQC Level 2	Not regulated.
	AQC Level 3	Not regulated.
14.2 UN proper shipping name	AQC Level 1	-
	AQC Level 2	-
	AQC Level 3	-
14.3 Transport hazard class(es)	AQC Level 1	-
	AQC Level 2	-
	AQC Level 3	-
14.4 Packing group	AQC Level 1	-
	AQC Level 2	-
	AQC Level 3	-
14.5 Environmental hazards	AQC Level 1	No.
	AQC Level 2	No.
	AQC Level 3	No.
Additional information	AQC Level 1	-
	AQC Level 2	-
	AQC Level 3	-

IATA

14.1 UN number	AQC Level 1	Not regulated.
	AQC Level 2	Not regulated.
	AQC Level 3	Not regulated.
14.2 UN proper shipping name	AQC Level 1	-
	AQC Level 2	-
	AQC Level 3	-
14.3 Transport hazard class(es)	AQC Level 1	-
	AQC Level 2	-
	AQC Level 3	-
14.4 Packing group	AQC Level 1	-
	AQC Level 2	-
	AQC Level 3	-
14.5 Environmental hazards	AQC Level 1	No.
	AQC Level 2	No.
	AQC Level 3	No.

AutomaticQC Cartridge Kit

SECTION 14: Transport information

Additional information

14.6 Special precautions for user : AQC Level 1

AQC Level 2

AQC Level 3

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

Notes : A "-" = not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (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.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : AQC Level 1
AQC Level 2
AQC Level 3

Not applicable.
Not applicable.
Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : AQC Level 1
AQC Level 2
AQC Level 3

Not listed
Not listed
Not listed

Industrial emissions (integrated pollution prevention and control) - Water : AQC Level 1
AQC Level 2
AQC Level 3

Not listed
Not listed
Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

AutomaticQC Cartridge Kit

SECTION 15: Regulatory information

Seveso Directive

<p>AutomaticQC Level 1</p> <p>AQC Level 2</p> <p>AQC Level 3</p>	<p>This product is not controlled under the Seveso Directive.</p> <p>This product is not controlled under the Seveso Directive.</p> <p>This product is not controlled under the Seveso Directive.</p>
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International regulations

Inventory list

Europe inventory	: AQC Level 1	Not determined.
	: AQC Level 2	Not determined.
	: AQC Level 3	Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 vPvB = Very Persistent and Very Bioaccumulative
 ASTM = American Society of Testing Materials
 CEN = European Committee on Standardization
 ECHA = European Chemicals Agency
 RTECS = Registry of Toxic Effects of Chemical Substances

Key literature references and sources for data : This SDS was prepared on the basis of sheets of individual components, literature data, online databases (e.g. ECHA, RTECS) as well as our knowledge and experience, taking into account current legislation.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
AQC Level 1 Skin Sens. 1, H317	Expert judgment
AQC Level 2 Aquatic Chronic 3, H412	Calculation method
AQC Level 3 Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

<p>AQC Level 1</p> <p>H301 H311 H314 H317 H331 H400 H410</p> <p>AQC Level 2</p> <p>H301 H311 H314 H317</p>	<p>Toxic if swallowed.</p> <p>Toxic in contact with skin.</p> <p>Causes severe skin burns and eye damage.</p> <p>May cause an allergic skin reaction.</p> <p>Toxic if inhaled.</p> <p>Very toxic to aquatic life.</p> <p>Very toxic to aquatic life with long lasting effects.</p> <p>Toxic if swallowed.</p> <p>Toxic in contact with skin.</p> <p>Causes severe skin burns and eye damage.</p> <p>May cause an allergic skin reaction.</p>
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AutomaticQC Cartridge Kit

SECTION 16: Other information

H335 H400 H410 H412	May cause respiratory irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
AQC Level 3 H301 H311 H314 H317 H335 H400 H410 H412	Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

<p>AQC Level 1 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Corr. 1B, H314 Skin Sens. 1, H317</p> <p>AQC Level 2 Acute Tox. 3, H301 Acute Tox. 3, H311 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 3, H412 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335</p> <p>AQC Level 3 Acute Tox. 3, H301 Acute Tox. 3, H311 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 3, H412 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335</p>	<p>ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 SKIN CORROSION/IRRITATION - Category 1B SKIN SENSITISATION - Category 1</p> <p>ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SKIN CORROSION/IRRITATION - Category 1B SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3</p> <p>ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SKIN CORROSION/IRRITATION - Category 1B SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3</p>
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Training advice : Provide workers with adequate training to assure that chemicals are handled safely in accordance with national and community legislation.

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Indicates information that has changed from previously issued version.

Notice to reader

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

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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

AutomaticQC Cartridge Kit