

## SAFETY DATA SHEET

Safety Data Sheet according to (EC) No. 1907/2006.

**SECTION 1: Identification of the substance/mixture and of the company/ undertaking****1.1. Product identifier:**

QC TEST KIT 1

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

Aqueous preparation for research and analysis. Restricted to professional users.

**1.3. Details of the supplier of the safety data sheet:**

ChemoMetec A/S

Gydevang 43 Phone: (+45) - 48 13 10 20

DK - 3450 Alleroed Fax: (+45) - 48 13 10 21

Denmark e-mail: [contact@chemometec.com](mailto:contact@chemometec.com)Responsible person for the safety data sheet (e-mail): [contact@chemometec.com](mailto:contact@chemometec.com)**1.4. Emergency telephone number:**

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture:**

CLP (1272/2008): None

**2.2. Label elements:**

EUH210: Safety data sheet available on request.

**2.3. Other hazards:** Contains Sodium azide. Contact with acids may form toxic gases.

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures:**

% w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.no.	Classification
<0.015	Sodium azide	26628-22-8	247-852-1	011-004-00-7	-	Acute Tox. 2;H300 Aquatic Acute 1;H400 Aquatic Chronic 1;H410 EUH032

Wording of hazard statements - see section 16.

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

Inhalation: Move the affected person to fresh air. Keep at rest. If needed: Get medical attention.

Skin contact: Remove contaminated clothing and wash skin with water and mild soap. If irritation persists: Seek medical advice.

Eye contact: Immediately flush with water or physiological salt water for at least 15 minutes, holding eyelids open, remember to remove contact lenses, if any. If irritation persists: Seek medical advice.

Ingestion: Rinse mouth and drink plenty of water. In case of discomfort: Seek medical advice.

**4.2. Most important symptoms and effects, both acute and delayed:**

May cause slight irritation of eyes, skin, lungs and gastrointestinal tract.

**4.3. Indication of any immediate medical attention and special treatment needed:**

Show this safety data sheet to a physician or emergency ward.

**SECTION 5: Fire-fighting measures****5.1. Extinguishing media:**

Not flammable.

**5.2. Special hazards arising from the substance or mixture:**

Not relevant (the product is not combustible).

**5.3. Advice for firefighters:**

Do not inhale smoke fumes. When extinguishing surrounding fires use breathing apparatus with an independent source of air.

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## SECTION 6: Accidental release measures

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**6.1. Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment - see section 8.

**6.2. Environmental precautions:**

Do not empty into drains – see section 12. Inform appropriate authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up:**

Absorb spilled liquid with inert material and place in a suitable container for disposal. Clean with water. Further handling of spillage - see section 13.

**6.4. Reference to other sections:**

See references above.

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## SECTION 7: Handling and storage

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**7.1. Precautions for safe handling:**

Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Wash with plenty of water and soap after end use.

**7.2. Conditions for safe storage, including any incompatibilities:**

Store in a tightly closed original container in a well-ventilated area.

**7.3. Specific end use(s):**

See section 1.

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## SECTION 8: Exposure controls/Personal protection

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**8.1. Control parameters:**

Occupational exposure limits (EH40/2005):

Substance	TWA (8h)	STEL (15 min.)	Comments
Sodium azide	0.1 mg/m <sup>3</sup>	0.3 mg/m <sup>3</sup>	Sk (can be absorbed through the skin)

DNEL/PNEC: No CSR.

**8.2. Exposure controls:**

Appropriate engineering controls: Ensure adequate ventilation.

Personal protective equipment:

Inhalation: Normally not necessary.

Skin: Wear protective gloves of e.g. nitrile or butyl (EN374). Breakthrough time, approx. 3 hours.

Eyes: Wear tight fitting safety goggles (EN166) when there is a risk of splashes.

Environmental exposure controls: None particular.

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## SECTION 9: Physical and chemical properties

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**9.1. Information on basic physical and chemical properties:**

Appearance:	Clear liquid with polystyrene beads
Odour:	Odourless
Odour threshold:	No available data
pH:	Neutral
Melting point / freezing point (°C):	~ 0
Initial boiling point and boiling range (°C):	~ 100
Decomposition temperature (°C):	No available data
Flash point (°C):	No available data
Evaporation rate:	No available data
Flammability (solid, gas):	Not relevant
Upper/lower flammability or explosive limits (vol.-%):	Not relevant
Vapour pressure (mbar, 25°C):	No available data
Vapour density (air=1):	No available data
Relative density (g/ml):	~ 1.0
Solubility:	Completely soluble in water
Partition coefficient: n-octanol/water, Log K <sub>ow</sub> :	No available data
Auto-ignition temperature (°C):	No available data
Viscosity:	No available data
Explosive/Oxidising properties:	Not relevant

**9.2. Other information:**

None relevant

## SECTION 10: Stability and reactivity

### 10.1. Reactivity:

No available data.

### 10.2. Chemical stability:

Stable under the recommended storage conditions - see section 7.

### 10.3. Possibility of hazardous reactions:

None known.

### 10.4. Conditions to avoid:

Excessive heating and direct sunlight.

### 10.5. Incompatible materials:

Strong oxidizing agents, reducing agents, strong acids and bases, heavy metals and salts. Sodium azide forms a very toxic gas (hydrogen azide) in contact with acids. Sodium azide may react with lead and copper, to form explosive metalazides.

### 10.6. Hazardous decomposition products:

When heated to high temperatures (decomposition) toxic gasses are formed such as oxides of nitrogen, sodium and carbon, hydrogen chloride and phosgene.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects:

Hazard class	Data (Sodium azide)	Test	Data source
Acute toxicity:			
Inhalation	LC <sub>50</sub> (rat) = 37 mg/m <sup>3</sup>	No info	RTECS
Dermal	LD <sub>50</sub> (rabbit) = 20 mg/kg	No info	RTECS
Oral	LD <sub>Lo</sub> (woman) = 14 mg/kg	No info	RTECS
	LD <sub>50</sub> (rat) = 27 mg/kg	No info	RTECS
Corrosion/irritation:	No irritation, skin and eyes	No info	ECHA
Sensitization:	No skin sensitization, guinea pig	OECD 419	ECHA
CMR:	TD <sub>Lo</sub> = 2730 mg/kg/78W (rat, continuous) "Equivocal tumorigenic agent"	No info	RTECS
	TD <sub>Lo</sub> = 177.5 mg/kg (rat, 6-19 days after birth): "Effects on embryo or foetus".	No info	RTECS

Information on likely routes of exposure: Lungs, skin and ingestion.

Symptoms:

Inhalation: Vapours may cause irritation to the airways.

Skin: May cause irritation by prolonged contact with skin.

Eyes: May cause eye irritation.

Ingestion: May cause irritation of the gastrointestinal tract, nausea, vomiting and headache.

Chronic effects: Sodium azide in its pure form does affect the CNS, is a possible mutagen and have caused carcinogenic effect in rats. No conclusive data for humans.

## SECTION 12: Ecological information

### 12.1. Toxicity:

Aquatic	Data (Sodium azide)	Test (Media)	Data source
Fish	LC <sub>50</sub> (Lepomis macrochirus, 96h) = 0.68 mg/l	No info	EPA Ecotox
Daphnia	EC <sub>50</sub> (Daphnia pulex, 48h) = 4.2 mg/l	No info	EPA Ecotox
Algae	EC <sub>50</sub> (Pseudokirchneriella subcapitata, 96h) = 0.35 mg/l	No info	EPA Ecotox

### 12.2. Persistence and degradability:

Sodium azide is an inorganic substance, methods for the determination of the biological degradation is not applicable to inorganic substances

### 12.3. Bioaccumulative potential:

Sodium azide: Log K<sub>ow</sub> < 1 - No significant bioaccumulative potential.

### 12.4. Mobility in soil:

No available/applicable data

### 12.5. Results of PBT and vPvB assessment:

No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

### 12.6. Other adverse effects:

None known

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**SECTION 13: Disposal considerations**

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**13.1. Waste treatment methods:**

The mixture is to be considered as hazardous waste. Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

**EWC-code:** 16 05 09 (mixture itself)  
15 02 03 (paper towel, inert material etc. contaminated with the mixture)

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**SECTION 14: Transport information**

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Not dangerous goods (ADR/RID/IMDG/IATA).

**14.1. UN-no.:** None

**14.2. UN proper shipping name:** None

**4.3. Transport hazard class(es):** None

**14.4. Packing group:** None

**14.5. Environmental hazards:** No

**14.6. Special precautions for user:** None

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not relevant.

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**SECTION 15: Regulatory information**

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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:**

None

**15.2. Chemical Safety Assessment:**

No CSR.

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**SECTION 16: Other information**

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**Hazard statements mentioned in section 2 and 3:**

H300: Fatal if swallowed.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

EUH032: Contact with acids liberates very toxic gas.

EUH210: Safety data sheet available on request.

**Abbreviations:**

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC<sub>50</sub> = Effect Concentration 50%

FW = Fresh Water

LC<sub>50</sub> = Lethal Concentration 50%

LD<sub>50</sub> = Lethal Dose 50%

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

**Literature:**

ECHA = European Chemicals Agency

EPA Ecotox = The US Environmental Protection Agency's database on ecotoxicological effects for chemicals.

IUCLID = International Uniform Chemical Information Database.

RTECS = Register of Toxic Effects of Chemical Substances

**Training advice:**

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

**Other information:**

Prepared based on the information available to Alttox A/S as of April 2016.

**Changes since the previous edition:**

1-16