

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

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

1.1 Product Identifier

Product Name: Calibration Check Water Sample

Part Number: 106088, 107651, 109996, 111681, 111682, 111683, 110993, 110705, 112073, 112385, 112777

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

Use of the substance/mixture: **Water analysis**

1.3 Details of the supplier of the safety data sheet

Company name: **Rivertrace Limited**
Address : Unit P, Kingsfield Business Centre,
Philanthropic Road,
Redhill, Surrey,
RH1 4DP,
England

Phone: +44 1737 775500
Fax: +44 1737 775501
Internet: www.rivertrace.com

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Respiratory or skin sensitization: Resp. Sens. 1

Respiratory or skin sensitization: Skin Sens. 1

Hazard Statement:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

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2.2 Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Methenamine; hexamethylenetetramine

Signal word: Danger

Pictograms:



Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTRE/doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

2.3 Other hazards

No data available

SECTION 3. Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Hazardous components

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CAS No	Chemical name			Qty.
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7732-18-5	Water			>90%
	231-791-2			
100-97-0	Methenamine; hexamethylenetetramine			1-5%
	202-905-8	612-101-00-2		
	Flam. Sol. 2, Resp. Sens. 1, Skin Sens. 1; H228 H334 H317			
	Formazine polymer			<0.5%
50-00-0	Formaldehyde... %			<0.1%
	200-001-8	605-001-00-5		
	Carc. 1B, Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1; H350 H341 H301 H311 H331 H314 H317			

Full text of H and EUH statements: see section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

General information

Take off all contaminated clothing immediately.

After inhalation

Move to fresh air

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

After ingestion

DO NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Consult a physician.
Show this safety data sheet to the doctor in attendance.

4.2 Most important symptoms and effects, both acute and delayed

sensitising effects

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Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours. Ammonia, Carbon monoxide, Formaldehyde, Nitrogen dioxide

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.

6.4 Reference to other sections

See also section 13

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

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Use only in well-ventilated areas. Do not breathe vapours/dust. Avoid contact with skin and eyes.

General industrial hygiene practice.

Advice on protection against fire and explosion

None known.

Further information on handling

Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep tightly closed in a dry, cool and well-ventilated place. Storage temperature: 5-25°C. Protect against light.

7.3 Specific end use(s)

Standard solution

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits (EH40)

CAS No.	Substance	ppm	mg/m3	fibres/ml	Category	Origin
50-00-0	Formaldehyde	2	2.5		TWA (8h)	WEL
		2	2.5		STEL (15 min)	WEL

Additional advice on limit values

None known. None known.

8.2 Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

Eye/face protection

Safety glasses with side-shields

Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact:

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Gloves material: Viton, Layer thickness: 0.70mm, Breakthrough time: >480min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20mm, Breakthrough time: >30min

Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

Skin protection

Remove and wash contaminated clothing before re-use.

Respiratory protection

Ensure adequate ventilation, especially in confined areas.

In case of insufficient ventilation, wear suitable respiratory equipment.

In the case of vapour formation use a respirator with an approved filter.

Respirator with a gas filter (gas filter type A or B or K).

Environmental exposure controls

no data available

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: suspension

Colour: off-white

Odour: odourless

pH-Value (at 20°C): 6.4

Changes in the physical state

Melting point: not applicable

Initial boiling point and boiling range: 100°C

Sublimation point: not applicable

Softening point: not applicable

Pour point: no data available

Flash point: not applicable

Sustaining combustion: no data available

Flammability

Solid: no data available

Gas: no data available

Explosive properties

Lower explosion limits: not applicable

Upper explosion limits: not applicable

Ignition temperature: no data available

Auto-ignition temperature

Solid: no data available

Gas: no data available

Decomposition temperature: no data available

Oxidizing properties

Vapour pressure: no data available

Density (at 20°C): 1,002g/cm³

Bulk Density: no data available

Water solubility (at 20°C): completely soluble

Solubility in other solvents

Partition coefficient: no data available

Viscosity/dynamic: no data available

Viscosity/kinematic: no data available

Flow rate: no data available

Vapour density: no data available

Evaporation rate (at 20°C): 0.63

Solvent separation test: no data available

Solvent content: no data available

9.2 Other information

Solid content: no data available

SECTION 10. Stability and reactivity

10.1 Reactivity

None Known.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions: Oxidizing agents.

10.4 Conditions to avoid

No dangerous reaction known under conditions of normal use.

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10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

To avoid thermal decomposition, do not overheat. Decomposition products: Ammonia, Carbon monoxide, Formaldehyde, Nitrogen dioxide.

Further information

None Known.

SECTION 11. Toxicological Information

11.1 Information on toxicological effects

Toxicocinetics, metabolism and distribution

No toxicology information is available.

Acute toxicity

Based on available data, the classification criteria are not met.

LD50/oral/rat = > 5000mg/kg

CAS No.	Chemical name			
	Exposure route	Dose	Species	Source
100-97-0	Methenamine; hexamethylenetetramine			
	Oral	LD50 9200mg/kg	Ratte	
50-00-0	Formaldehyde...%			
	Oral	ATE 100mg/kg		
	Dermal	ATE 100mg/kg		
	Inhalative (4h) vapour	LC50 250mg/kg	rat	
	Inhalative aerosol	ATE 0.5mg/l		

Irritation and corrosivity

Based on available data, the classification criteria are not met.

No known effect.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (methenamine; hexamethylenetetramine)

May cause an allergic skin reaction. (methenamine; hexamethylenetetramine), (Formaldehyde ... %)

May cause sensitisation by skin contact.

May cause sensitisation by inhalation. (List of references: Asthma in the workplace, I.Leonard Bernstein)

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Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data is available on the product itself.

Practical experience

Observations relevant to classification

May cause allergic skin reaction. May cause allergic respiratory reaction.

Further information

Other dangerous properties cannot be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

No data is available on the product itself. Do not flush into surface water or sanitary sewer system.

CAS No.	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
100-97-0	Methenamine; hexamethylenetetramine				
	Acute fish toxicity	LC50 49800mg/l	96h	Fisch	

12.2 Persistence and degradability

None Known.

12.3 Bioaccumulative potential

None Known

12.4 Mobility in soil

None Known

12.5 Results of PBT and vPvB assessment

None Known

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12.6 Other adverse effects

None Known

SECTION 13. Disposable considerations

13.1 Waste treatment methods

Advice on disposal

In accordance with local and national regulations

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals classified as hazardous waste.

SECTION 14. Transport information

14.1 Land Transport (ADR/RID)

Other applicable information (land transport)

Not subject to transport regulations.

14.2 Marine transport (IMDG)

Other applicable information (marine transport)

Not subject to transport regulations

14.3 Air transport (ICAO)

Other applicable information (air transport)

Not subject to transport regulations

14.4

14.5 Environmental hazard

ENVIRONMENTAL HAZARDS: NO

14.6 Special precautions for user

no data available

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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15. Regulatory information

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

National regulatory information

Water containing class (D): 2-water contaminating

15.2 Chemical safety assessment

Chemical safety assessment for substances in this mixture were not carried out.

SECTION 16. Other information

Relevant H and EUH statements (number and full text)

H228	Flammable solid.
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
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.