

Sig Tests® SIG NITRITE®

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	Sig Nitrite Test.
Trade name	Sig Nitrite Test.
CAS No.	Mixture.
EINECS No.	Mixture.
REACH Registration No.	None assigned.
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	Detecting Nitrite Reducing Bacterial (NRB) contamination of cooling, industrial and environmental waters.
Uses advised against	Not to be used to test any substance / sample of human or animal origin.
1.3 Details of the supplier of the Safety Data Sheet	
Company Identification	ECHA Microbiology Ltd. Unit 22 & 23 Willowbrook Technology Park Llandogo Rd., CARDIFF CF3 0EF United Kingdom (UK).
Telephone	+44 (0) 29 2036 5930
Fax	+44 (0) 29 2036 1195
E-mail	sales@echamicrobiology.co.uk
1.4 Emergency telephone number	
Company	07970 150682 & +44 (0) 2920 365931

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Regulation (EC) No. 1272/2008 (CLP)	Not classified as dangerous for supply/use.
2.2 Label elements	
Product name	According to Regulation (EC) No. 1272/2008 (CLP)
Hazard pictogram	Sig Nitrite Test.
Signal word(s)	None.
Hazard statement(s)	None.
Precautionary statement(s)	None.
2.3 Other hazards	None.
2.4 Additional Information	No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

No component is present at sufficient concentration to require a hazardous classification.

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This product contains: >95% Water.

3.1 Substances

Not applicable.

3.2 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Potassium Nitrite	<1	7758-09-0	231-832-4	None assigned	GHS03, Ox. Sol. 2; H272, GHS06, Acute Tox. 3; H301, GHS09, Aquatic Acute 1; H400

3.3 Additional Information

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation
Skin Contact
Eye Contact

Ingestion

Unlikely route of exposure.

Wash with plenty of water/soap.

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If symptoms persist, obtain medical attention.

Wash out mouth with water. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Unlikely to be required but if necessary treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

No special requirements.

4.4 Additional Information

Exposure to the content of used test kit: If symptoms occur obtain medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media
Unsuitable Extinguishing Media

As appropriate for surrounding fire.

None known.

5.2 Special hazards arising from the substance or mixture

This product may give rise to hazardous fumes in a fire. Hazardous decomposition product(s): Carbon monoxide, Carbon dioxide, Smoke.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Chemical protection suit.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Spillage is unlikely to occur unless the glass bottles of the test kit are broken.

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|---|---|
| <p>6.1 Personal precautions, protective equipment and emergency procedures</p> | Caution - spillages may be slippery. Wear protective gloves. |
| <p>6.2 Environmental precautions</p> | Avoid release to the environment. |
| <p>6.3 Methods and material for containment and cleaning up</p> | |
| <p>Unused test kit</p> | Contain spillages with sand, earth or any suitable adsorbent material. |
| <p>Used test kit</p> | Cover with disinfectant. Wait for at least 10 minutes before recovering for disposal. If broken glass accidentally cuts the skin, clean the wound thoroughly and seek medical advice. |
| <p>6.4 Reference to other sections</p> | See Also Section 8. |

SECTION 7: HANDLING AND STORAGE

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|--|---|
| <p>7.1 Precautions for safe handling</p> | With contents added: Wear appropriate personal protective equipment, avoid direct contact. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash the contaminated area of body with soap and fresh water. Do not open test bottle after sample addition or if contamination is suspected unless to dispose of as Section 13. |
| <p>7.2 Conditions for safe storage, including any incompatibilities</p> | Keep away from direct sunlight. Keep under: 25 – 30°C. |
| <p>7.2.1 Storage Temperature</p> | |
| <p>Unused test kit</p> | Ideal storage temperature: 4 – 10 °C. Keep container tightly closed, in a cool, well ventilated place. Keep in dark place. |
| <p>Used test kit</p> | Incubate at 25 - 30°C (or the temperature of the system being tested). If an incubator is not available use a dark warm draught free cupboard at 25 - 30°C. |
| <p>7.2.2 Storage Life</p> | Stable under normal conditions. |
| <p>7.2.3 Incompatible materials</p> | No information available. |
| <p>7.3 Specific end use(s)</p> | Detecting Nitrite Reducing Bacterial (NRB) contamination of cooling, industrial and environmental waters. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1** **Control parameters**

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8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Potassium Nitrite	7758-09-0	-	-	-	-	Not established

Source: UK Workplace Exposure Limits EH40/2005 (Third edition, published 2018), United Kingdom

8.1.2 Biological limit value

No information available.

8.1.3 PNECs and DNELs

No information available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/face protection



Wear protective eye glasses for protection against liquid splashes.

Skin protection (Hand protection/ Other)



Wear protective gloves.

Respiratory protection



Not normally required.

Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Gel in a glass bottle.

Colour

Yellow - Orange.

Odour

Odourless.

Odour threshold

Not established.

pH

6.0

Melting point/freezing point

90°C

Initial boiling point and boiling range

Not available.

Flash point

Not applicable.

Evaporation rate

Not applicable.

Flammability (solid, gas)

Non-flammable.

Upper/lower flammability or explosive limits

Not applicable.

Vapour pressure

Not applicable.

Vapour density

Not applicable.

Relative density

Not available.

Bulk Density

Not available.

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	Solubility(ies)	Miscible.
	Partition coefficient: n-octanol/water	Not available.
	Auto-ignition temperature	Not applicable.
	Decomposition Temperature	Not available.
	Viscosity	Not applicable.
	Explosive properties	Not explosive.
	Oxidising properties	Not oxidising.
9.2	Other information	None.

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose.
10.4	Conditions to avoid	Keep away from direct sunlight.
10.5	Incompatible materials	No information available.
10.6	Hazardous Decomposition Product(s)	No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute toxicity	Low acute toxicity. Used test kit: May be harmful microorganisms present (originating from the sample tested) which could cause infection after proliferation in the gel.
	Skin corrosion/irritation	Not classified.
	Serious eye damage/irritation	Not classified.
	Respiratory or skin sensitization	It is not a skin sensitiser.
	Germ cell mutagenicity	There is no evidence of mutagenic potential.
	Carcinogenicity	No evidence of carcinogenicity.
	Reproductive toxicity	None anticipated.
	STOT - single exposure	Not classified.
	STOT - repeated exposure	Not classified.
	Aspiration hazard	Not classified.
11.2	Other information	None.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Low toxicity to aquatic organisms.
12.2	Persistence and degradability	The product is readily biodegradable. Unlikely to persist.
12.3	Bioaccumulative potential	The product has low potential for bioaccumulation.
12.4	Mobility in soil	Soluble in water.
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None anticipated.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods
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Unused test kit	If there is evidence of microbial contamination (i.e pink colouration, turbidity or growth within the gel) then dispose of as used test kits.
Used test kit	Dispose of via an authorised person / licensed waste contractor in accordance with local, state or national legislation.
Incineration	Classify as a bio-hazardous infectious test kit showing growth. Incineration may be carried out under controlled conditions provided local regulations for emissions are met by an authorised person / licensed waste contractor.
Disinfection followed by Licensed Waste Contractor	A phenolic or bleach based disinfectant with a chlorine content of about 5% is suitable for making the disinfectant solution. Leave the bottle and its cap in the disinfectant solution overnight.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1	UN number	Not applicable.
14.2	Proper Shipping Name	Not applicable.
14.3	Transport hazard class(es)	Not applicable.
14.4	Packing Group	Not applicable.
14.5	Environmental hazards	Not applicable.
14.6	Special precautions for user	Not applicable.
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
14.8	Additional Information	Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	Authorisations and/or restrictions on use	
	Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.
	REACH: ANNEX XIV list of substances subject to authorisation	All chemicals are not listed.
	REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	All chemicals are not listed.
	Community Rolling Action Plan (CoRAP)	All chemicals are not listed.
15.1.2	National regulations	None known.
15.2	Chemical Safety Assessment	Not applicable.

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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
STOT	Specific Target Organ Toxicity

Hazard Statement(s)

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

Not applicable.