

Sig Tests[®] SIG NITRITE[®]

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

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

1.1 Product identifier

Product Name Trade name CAS No. EINECS No. REACH Registration No.

 Relevant identified uses of the substance or mixture and uses advised against Identified use(s)

Uses advised against

1.3 Details of the supplier of the Safety Data Sheet Company Identification

Telephone Fax E-mail **Emergency telephone number** Company

1.4

Sig Nitrite Test. Sig Nitrite Test. Mixture. Mixture. None assigned.

Detecting Nitrite Reducing Bacterial (NRB) contamination of cooling, industrial and environmental waters. Not to be used to test any substance / sample of human or animal origin.

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2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

 Regulation (EC) No. 1272/2008 (CLP)

 2.2
 Label elements

 Product name

 Hazard pictogram

 Signal word(s)

 Hazard statement(s)

 Precautionary statement(s)

2.3 Other hazards

2.4 Additional Information

Not classified as dangerous for supply/use. According to Regulation (EC) No. 1272/2008 (CLP) Sig Nitrite Test. None. None. None. None.

None. No information available.



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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

3.1 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) |
|----------------------------|------|-----------|-----------|---------------------------|---|
| Water | >95 | 7732-18-5 | 231-791-2 | None assigned | None |
| 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 |

3.2 Additional Information

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

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures Inhalation

Skin Contact Eye Contact

Ingestion

- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of any immediate medical attention and special treatment needed
- 4.4 Additional Information

Unlikely route of exposure. Wash with plenty of soap and water. 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. Unlikely to be required but if necessary treat symptomatically. No special requirements.

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

5. SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Extinguishing Media Suitable Extinguishing Media Unsuitable Extinguishing Media
- 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for fire-fighters

As appropriate for surrounding fire. None known. This product may give rise to hazardous fumes in a fire. Hazardous decomposition product(s): Carbon monoxide, Carbon dioxide, Smoke. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Chemical protection suit.



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6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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

- 6.1 Personal precautions, protective equipment and emergency procedures
- 6.2 Environmental precautions
- 6.3 Methods and material for containment and cleaning up Unused test kit

Caution - spillages may be slippery. Wear protective gloves. Avoid release to the environment.

Contain spillages with sand, earth or any suitable adsorbent material. 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. See Also Section 8.

6.4 Reference to other sections

Used test kit

7. SECTION 7: HANDLING AND STORAGE

| 7.1 | Precautions for safe handling | 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. |
|--------------|--|--|
| 7.2 | Conditions for safe storage, including any incompatibilities | Keep away from direct sunlight. Keep under: 25 - 30°C. |
| 7.2.1 | Storage Temperature | |
| | Unused test kit | Ideal storage temperature: 4 – 10 °C. Keep container tightly closed, in a cool, well ventilated place. Keep in dark place. |
| | Used test kit | Incubate at $25 - 30^{\circ}$ C (or the temperature of the system being tested). If an incubator is not available use a dark warm draught free cupboard at $25 - 30^{\circ}$ C. |
| 7.2.2 | Storage Life | Stable under normal conditions. |
| 7.2.3 7.3 | Incompatible materials Specific end use(s) | No information available. Detecting Nitrite Reducing Bacterial (NRB) contamination of cooling, industrial and environmental waters. |



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8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

| SUBSTANCE | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m³) | STEL (ppm) | STEL (mg/m ³) | Note |
|----------------------|-----------|------------------------|--------------------------|---------------|------------------------------|-----------------|
| Water | 7732-18-5 | - | - | - | - | Not established |
| Potassium Nitrite | 7758-09-0 | - | - | - | - | Not established |

8.1.2 Biological limit value

8.1.3 PNECs and DNELs

8.2 Exposure controls

- 8.2.1 Appropriate engineering controls
- 8.2.2 Personal protection equipment Eye/face protection

Skin protection (Hand protection/ Other)



Respiratory protection



Thermal hazards 8.2.3 Environmental Exposure Controls No information available.

No information available.

Ensure adequate ventilation.

Wear protective eye glasses for protection against liquid splashes.

Wear protective gloves.

Not normally required.

Not applicable. Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical

properties Appearance Colour Odour Odour Threshold (ppm) pH (Value) Melting Point (°C) Boiling Point (°C) Flash Point (°C) Evaporation rate Flammability Explosive Limit Ranges Vapour Pressure (mm Hg) Vapour Density (Air=1) Density (g/ml)

Gel in a glass bottle. Yellow - Orange. Odourless. Not established. 6.0 90°C Not available. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not available.

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Bulk Density (g/ml) Solubility (Water) Solubility (Other) Partition Coefficient (n-Octanol/water) Auto Ignition Temperature (°C) Decomposition Temperature (°C) Viscosity (mPa.s) Explosive properties Oxidising properties Other information Not available. Miscible. Not available. Not available. Not applicable. Not available. Not applicable. Not explosive. Not oxidising. None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

9.2

- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid
- 10.5 Incompatible materials
- 10.6 Hazardous Decomposition Product(s)

Stable under normal conditions. Stable under normal conditions. No hazardous reactions known if used for its intended purpose. Keep away from direct sunlight. No information available. No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects Acute toxicity
- Irritation Corrosivity Sensitisation Repeated dose toxicity Carcinogenicity Mutagenicity Toxicity for reproduction 11.2 Other information

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. Non-irritant. Not classified. It is not a skin sensitiser. None anticipated. No evidence of carcinogenicity. There is no evidence of mutagenic potential. Not classified. None.

12. SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity
- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- 12.5 Results of PBT and vPvB assessment
- 12.6 Other adverse effects

Low toxicity to aquatic organisms. The product is readily biodegradable. Unlikely to persist. The product has low potential for bioaccumulation. Soluble in water. Not classified as PBT or vPvB. None anticipated.



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13. SECTION 13: DISPOSAL CONSIDERATIONS

| 13.1 | Waste treatment methods | If there is evidence of microbial contamination (i.e pink colouration, turbidity or growth within the gel) then dispose of as used test kits. |
|------|---|---|
| | Unused test kit | Dispose of via an authorised person / licensed waste contractor in accordance with local, state or national legislation. |
| | Used test kit | |
| | 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 |

14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1 UN number

- 14.2 Proper Shipping Name
- 14.3 Transport hazard class(es)
- 14.4 Packing Group
- 14.5 Environmental hazards
- 14.6 Special precautions for user
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- 14.8 Additional Information

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

the disinfectant solution overnight.

Not applicable.

15. 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 | All chemicals are not listed. |
| | Concern for Authorisation | |
| | 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. |
| 15.1.2 15.2 | Community Rolling Action Plan (CoRAP) National regulations Chemical Safety Assessment | All chemicals are not listed. None known. Not applicable. |



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16. 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 |
| | |

Hazard Statement(s)

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

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Annex to the extended Safety Data Sheet (eSDS)

Not applicable.

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