

SAFETY DATA SHEET

SIG TESTS®: SIG SULPHIDE™

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

1.1 GHS Product Identifier	Product Name	SIG TESTS: SIG SULPHIDE TEST.
	Trade Name	SIG TESTS: SIG SULPHIDE TEST.
	CAS No.	Mixture.
	EINECS No.	Mixture.
1.2 Recommended use of the chemical and restrictions on use	Identified use(s)	Detecting Sulphide Generating Bacteria (SGB) or consortia of organisms capable of sulphide generation.
	Uses advised against	Not to be used to test any substance / sample of human or animal origin.
1.3 Identity of manufacturer/importer and other suppliers	Distributor	C & L Sales & Services Pty Ltd U3, 40 Waterview Street Carlton 2218 NSW Australia Att: Mr Brian George sales@candl.org +61 (2) 9547 1048
	E-Mail (competent person)	
	Telephone	
	Manufacturer	ECHA Microbiology Ltd. Unit 22 & 23 Willowbrook Technology Park Llandogo Rd., CARDIFF CF3 0EF United Kingdom (UK). +44 (0) 29 2036 5930 +44 (0) 29 2036 1195 info@echamicrobiology.com
	Telephone	
	Fax	
	E-mail	
1.4 Emergency telephone number	Australia	+61 (2) 9547 1048

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	GHS Classification (3 rd Revision)	Not classified as dangerous for supply/use.
2.2 Label elements	Hazard Pictogram	According to GHS Classification
	Signal word(s)	None.
	Hazard statement(s)	None.
	Precautionary statement(s)	None.
2.3 Other hazards		None.
2.4 Additional Information		None.

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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 Substances

Not applicable.

3.2 Mixtures

GHS Classification

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	Hazard statement(s)
Water	>95	7732-18-5	231-791-2	None
Iron Sulphite Agar	>1	None assigned	None assigned	None

3.3 Additional Information

None.

4. 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 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.

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.

5. 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

Decomposes in a fire giving off toxic fumes: 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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6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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| 6.1 Personal precautions, protective equipment and emergency procedures | Caution - spillages may be slippery. Wear protective gloves. |
| 6.2 Environmental precautions | Avoid release to the environment. |
| 6.3 Methods and material for containment and cleaning up | |
| Unused test kit | Contain spillages with sand, earth or any suitable adsorbent material. |
| Used test kit | 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. |
| 6.4 Reference to other sections | See Also Section 8. |

7. SECTION 7: HANDLING AND STORAGE

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| 7.1 Precautions for safe handling | 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. |
| Test kit IN USE | 25 - 30°C. Do not store after use. |
| 7.2.2 Storage Life | Stable under normal conditions. |
| 7.2.3 Incompatible materials | No information available. |




8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LEL (8 hr TWA ppm)	LEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
None assigned						

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| 8.1.2 Biological limit value | No information available. |
| 8.2 Exposure controls | Provide adequate ventilation. |
| 8.3 Personal protection equipment | |

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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.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Gel in a glass bottle.
Colour	Greenish.
Odour	Odourless.
Odour threshold	Not available.
pH	7.5
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.
Solubility (Water)	Miscible.
Solubility (Other)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not applicable.

9.2 Other information

None.

10. 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	Stable under normal conditions.
10.4 Conditions to avoid	Keep away from direct sunlight.
10.5 Incompatible materials	No information available.
10.6 Hazardous decomposition products	Carbon monoxide, Carbon dioxide, Smoke.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity	Low acute toxicity.

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		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	Non-irritant.
	Serious eye damage/irritation	Not classified.
	Respiratory or skin sensitisation	It is not a skin sensitiser.
	Germ cell mutagenicity	There is no evidence of mutagenic potential.
	Carcinogenicity	No evidence of carcinogenicity.
	Reproductive toxicity	Not classified.
	Specific target organ toxicity — single exposure	None anticipated.
	Specific target organ toxicity — repeated exposure	None anticipated.
	Aspiration hazard	Not classified.
11.2	Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Ecotoxicity	Low toxicity to aquatic organisms.
12.2	Persistence and degradability	The product is readily biodegradable.
12.3	Bioaccumulative potential	The product has low potential for bioaccumulation.
12.4	Mobility in soil	Soluble in water.
12.5	Other adverse effects	None anticipated.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste water treatment	If there is evidence of microbial contamination (i.e. black 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 the disinfectant solution overnight.

14. SECTION 14: TRANSPORT INFORMATION

Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)

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.

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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 MARPOL73/78 and the IBC Code	Not applicable.
14.8	Hazchem or Emergency Action Code	Not applicable.

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	AICS (Australian Inventory of Chemical Substances)	All chemicals listed.
	Australian HVICL (High Volume Industrial Chemicals List)	Listed: Water (CAS No.: 7732-18-5)
	NICNAS Priority Existing Chemical (PEC)	All chemicals are not listed.
	NPI (National Pollutant Inventory)	All chemicals are not listed.
	AICS (Australian Inventory of Chemical Substances)	All chemicals listed.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 2, 3, 8, 9, 11, 14, 15

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit

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