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SIG TESTS®: Sig Rapid WB

SAFETY DATA SHEET

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

1.1 Product identifier

Product Name	SIG TESTS®: Sig Rapid WB.
Trade name	SIG TESTS®: Sig Rapid WB.
CAS No.	Mixture.
EINECS No.	Mixture.

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

Identified use(s)	Designed to give a rapid (1 hour) semi-quantitative indication of moderate and heavy microbial contamination in water associated with distillate fuel.
Uses advised against	None known.

1.3 Details of the supplier of the safety data sheet

Distributor	C & L Sales & Services Pty Ltd U3, 40 Waterview Street Carlton 2218 NSW Australia Att: Mr Brian George
E-Mail (competent person)	sales@candl.org
Telephone	+61 (2) 9547 1048
Manufacturer	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	Info@fueltreat.com.au

1.4 Emergency telephone number

Australia	03 9465 6011

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification (3rd Revision)	SIG TESTS®: Sig Rapid WB contains pH buffer tablets: Repr. 1B; May damage fertility. May damage the unborn child.

2.2 Label elements

According to GHS Classification

Hazard pictogram

Signal word(s)	Danger.
Hazard statement(s)	H360FD: May damage fertility. May damage the unborn child.
Precautionary statement(s)	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P281: Use personal protective equipment as required.

		P308+P313: IF exposed or concerned: Get medical advice/attention. P405: Store locked up. P501: Dispose of contents/container to: Licensed waste disposal site.
2.3	**Other hazards**	None.
2.4	**Additional Information**	For professional users only.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SIG TESTS®: Sig Rapid WB contains one tube of ten pH buffer tablets (Disodium Tetraborate Decahydrate).

3.1 Substances
Not applicable.

3.2 Mixtures
GHS Classification

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	Hazard pictogram(s) and Hazard statement(s)
Disodium tetraborate decahydrate	40 - 100	1303-96-4	215-540-4	Repr. 1B; H360FD

3.3 Additional Information
None.

4. SECTION 4: FIRST AID MEASURES

4.1	**Description of first aid measures**	
	Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
	Skin Contact	Wash with plenty of soap and water.
	Eye Contact	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If symptoms persist, obtain medical attention.
	Ingestion	Wash out mouth with water. Get medical attention.
4.2	**Most important symptoms and effects, both acute and delayed**	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
4.3	**Indication of any immediate medical attention and special treatment needed**	IF exposed or concerned: Get medical advice/attention.

5. SECTION 5: FIRE-FIGHTING MEASURES

Non-flammable.

5.1	**Extinguishing Media**	
	Suitable Extinguishing Media	As appropriate for surrounding fire.
	Unsuitable Extinguishing Media	None known.
5.2	**Special hazards arising from the substance or mixture**	This product may give rise to hazardous fumes in a fire.
5.3	**Advice for fire-fighters**	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Chemical protection suit.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Avoid breathing dust. Wear protective gloves. Clean up spill immediately. Do not place spilled materials back in the original container.
6.2	**Environmental precautions**	Prevent entry into drains.
6.3	**Methods and material for containment and cleaning up**	
	Dry, Uncontaminated tablets	Collect mechanically and dispose of according to Section 13.
	Contaminated tablets and Damp tablets	Sweep up and shovel into waste drums or plastic bags. Dispose of via an authorised person / licensed waste contractor in accordance with local, state or national legislation.
6.4	**Reference to other sections**	See Also Section 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Avoid breathing dust. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
7.2	**Conditions for safe storage, including any incompatibilities**	Store locked up. Keep container tightly closed, in a cool, well ventilated place. Keep away from moisture.
	Storage Temperature	Ambient.
	Storage Life	Stable under normal conditions.
	Incompatible materials	Reducing agent, Oxidizing agents, Alkali metals.

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/m³)	Note
Disodium Tetraborate Decahydrate	1303-96-4	-	5	-	-	

Source: WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS

8.1.2 Biological limit value — No information available.

8.2 Appropriate engineering controls — Ensure adequate ventilation. Local exhaust recommended.

8.3 Personal protection equipment

Eye/face protection — Not normally required. For large quantities - Wear eye/face protection.

Skin protection (Hand protection/ Other) — Wear protective gloves. For large quantities - Wear protective gloves.

Respiratory protection — Not normally required. An approved dust mask should be worn if dust is generated during processing or handling. A suitable dust mask or dust respirator with filter type A/P may be appropriate.

Thermal hazards — Not applicable.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Tablets.
Colour	White.
Odour	Odourless.
Odour threshold	Not established.
pH	10 (5% aqueous solution)
Melting point/freezing point	741°C
Initial boiling point and boiling range	1575°C
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Density	1.73g/cm³
Bulk Density	Not available.
Solubility (Water)	Soluble.
Solubility (Other)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

9.2 Other information

Molecular formula	$B_4Na_2O_7.10H_2O$
Molecular weight	381.36

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**	No hazardous reactions known if used for its intended purpose.
10.4	**Conditions to avoid**	Keep away from heat. Keep away from moisture.
10.5	**Incompatible materials**	Reducing agent, Oxidizing agents, Alkali metals.
10.6	**Hazardous decomposition products**	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	**Information on toxicological effects**	
	Acute toxicity	Low acute toxicity.
	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	May damage fertility. May damage the unborn child. No data.
	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**	No information available.
12.3	**Bioaccumulative potential**	No information available.
12.4	**Mobility in soil**	Soluble in water.
12.5	**Other adverse effects**	None anticipated.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	
	Dry, Uncontaminated tablets	Dispose of contents/container to: Licensed waste disposal site.
	Contaminated tablets and Damp tablets	Dispose of via an authorised person / licensed waste contractor in accordance with local, state or national legislation.
13.2	**Additional Information**	Disposal should be in accordance with local, state or national legislation.

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.
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)	Listed: Disodium tetraborate decahydrate (CAS No.: 1303-96-4)
Australian HVICL (High Volume Industrial Chemicals List)	Listed: Disodium tetraborate decahydrate (CAS No.: 1303-96-4)
NICNAS Priority Existing Chemical (PEC)	Not listed.
NPI (National Pollutant Inventory)	Not listed.

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
Repr. 1B	Reproductive toxicity Category 1B

Hazard Statement(s)

H360FD	May damage fertility. May damage the unborn child.

Disclaimers

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