

ECHA Microbiology Limited.

Unit 22 & 23 Willowbrook Technology Park, Llandogo Rd., CARDIFF CF3 0EF, UK

Tel: +44 (0)29 2036 5930 Fax: +44(0) 29 2036 1195 E-mail: sales@echamicrobiology.com



MicrobMonitor Sig Rapid WB

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	MicrobMonitor Sig Rapid WB.
Trade name	MicrobMonitor Sig Rapid WB.
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)	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	
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.com
1.4 Emergency telephone number	
Company	07970 150682 & 07813 833193

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Regulation (EC) No. 1272/2008 (CLP)	MicrobMonitor Sig Rapid WB contains pH buffer tablets: Repr. 1B: May damage fertility. May damage the unborn child.
2.2 Label elements	
Product name	According to Regulation (EC) No. 1272/2008 (CLP)
Hazard pictogram	MicrobMonitor Sig Rapid WB.
Signal word(s)	GHS08 Danger.
Hazard statement(s)	H360FD: May damage fertility. May damage the unborn child.

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Precautionary statement(s)

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P405: Store locked up.

2.3 Other hazards

None.

2.4 Additional Information

For professional users only.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

MicrobMonitor Sig Rapid WB contains one tube of ten pH buffer tablets (Disodium Tetraborate Decahydrate).

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)
Disodium tetraborate decahydrate	40 - 100	1303-96-4	215-540-4	None assigned	GHS08, Repr. 1B; H360FD

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

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.

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5. SECTION 5: FIRE-FIGHTING MEASURES

Non-flammable.

- | | |
|--|---|
| 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. |
| 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.
Prevent entry into drains. |
| 6.2 Environmental precautions | |
| 6.3 Methods and material for containment and cleaning up
Dry, Uncontaminated tablets

Contaminated tablets and Damp tablets | Collect mechanically and dispose of according to Section 13.
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. Wear protective gloves/protective clothing/eye protection/face protection. 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
Storage Temperature
Storage Life
Incompatible materials | Store locked up. Keep container tightly closed, in a cool, well ventilated place. Keep away from moisture. Ambient.
Stable under normal conditions.
Reducing agent, Oxidizing agents, Alkali metals. |
| 7.3 Specific end use(s) | Designed to give a rapid (1 hour) semi-quantitative indication of moderate and heavy microbial contamination in water associated with distillate fuel. |

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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/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Disodium Tetraborate Decahydrate	1303-96-4	-	5	-	-	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

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. Local exhaust recommended.

8.2.2 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.

8.2.3 Environmental Exposure Controls

Prevent entry into drains.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Tablets.

Colour

White.

Odour

Odourless.

Odour Threshold (ppm)

Not established.

pH (Value)

10 (5% Aqueous Solution)

MicrobMonitor Sig Rapid WB

Melting Point (°C)	741°C
Boiling Point (°C)	1575°C
Flash Point (°C)	Not available.
Evaporation rate	Not available.
Flammability	Non-flammable.
Explosive Limit Ranges	Not applicable.
Vapour Pressure (mm Hg)	Not available.
Vapour Density (Air=1)	Not available.
Density (g/ml)	1.73g/cm ³
Bulk Density (g/ml)	Not available.
Solubility (Water)	Soluble.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Temperature (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Viscosity (mPa.s)	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2 Other information	
Molecular formula	B ₄ Na ₂ O ₇ ·10H ₂ O
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 Product(s)	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity	Low acute toxicity.
Irritation	Non-irritant.
Corrosivity	Not classified.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity	None anticipated.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	There is no evidence of mutagenic potential.
Toxicity for reproduction	Repr. 1B; May damage fertility. May damage the unborn child.
11.2 Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Low toxicity to aquatic organisms.
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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	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	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

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	Additional Information	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 Concern for Authorisation	Listed: Disodium tetraborate decahydrate (CAS No.: 1303-96-4)
	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.

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15.2 Chemical Safety Assessment

Not applicable.

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
Repr. 1B	Reproductive toxicity Category 1B

Hazard Statement(s)

H360FD May damage fertility. May damage the unborn child.

Hazard Pictogram(s)

GHS08



Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

Not applicable.