

Revision: 2.0

(Replaces revision 1.2 of 25 January 2023)

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06 November 2023

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Section 1. Identification**1.1 Product Identifier**

CHE5486SE

Product Name

BORIC ACID SOLUTION 4% w/v (with indicator) 5L.

CAS Number

Mixture

REACH Registration No

A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

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

Uses of Material

Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

SLS Select Education

Unit 6, Foresters Avenue
Fairham Business Park
Fairham
Nottingham
NG11 2AF
UNITED KINGDOM

Phone

0115 9821111

Fax

0115 9825275

Email

sales@scientific-labs.com

1.4 Emergency Telephone(08:00-17:00) 0115 9821111
(24hr) 112
(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

Reproductive toxicity, category 1B

H360: May damage fertility or the unborn child.

2.2 Label elements**Labelling according to regulation 1272/2008/EC**

Signal word

Danger

Hazard Pictograms



Hazard Statements

May damage fertility or the unborn child.

Precautionary Statements Wear protective gloves / protective clothing / eye protection / face protection. IF exposed or concerned: Get medical advice/attention. Dispose of contents / container to an approved waste disposal plant

Section 3. Composition

3.2 Mixtures

| Component | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE) |
|------------|------------|-----------|-----------------------|----------|-----------------------------------|
| Boric Acid | 10043-35-3 | 233-139-2 | 01-2119486683-25-XXXX | 4% | Repr. 1B |

Section 4. First Aid

4.1 Description of first aid measures

| | |
|--------------------------------------|---|
| Eyes | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. |
| Skin | Wash off skin thoroughly with water. |
| Inhalation | Remove from exposure. |
| Ingestion | Wash out the patients mouth thoroughly with water. |
| Personal protection for first aiders | Wear protective gloves / eye protection. |

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

| | |
|---------------------|--|
| Extinguishing Media | Consider what other flammable materials are present and act accordingly. |
| Unsuitable Media | Nothing specified. |

5.2 Special hazards arising from the substance or mixture

| | |
|---------|-----------------------------------|
| Hazards | Presents no specific fire danger. |
|---------|-----------------------------------|

5.3 Advice for firefighters

| | |
|-------------------------|---|
| Advice for firefighters | Consider all other materials in the vicinity. |
|-------------------------|---|

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

| | |
|---------------------|----------------------------|
| Personal Protection | Presents no major hazards. |
|---------------------|----------------------------|

6.2 Environmental precautions

| | |
|--------------|---|
| Enviromental | Presents no major environmental hazard. |
|--------------|---|

6.3 Methods and material for containment and cleaning up

| | |
|----------------|---|
| Major Spillage | Wash area down with copious amounts of water. |
| Minor Spillage | Wash area down with copious amounts of water. |

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

No specific precautions.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage .

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

| Component | CAS No | Concentration | Workplace Exposure Limits | |
|------------|------------|---------------|---------------------------|-------------------------|
| | | | Long Term (8hr TWA) | Short Term 15min period |
| Boric Acid | 10043-35-3 | 4% | - | - |

Exposure data source(s) No hazardous components.

8.2 Exposure controls

| | |
|------------------------|---|
| Respiratory Protection | Presents no significant inhalation health hazard. |
| Hand Protection | Use nitrile gloves or PVC gauntlets. |
| Eye Protection | No specific hazard through eye contact although the wearing of safety glasses is advised. |
| Skin Protection | If skin contact or contamination of clothing is likely, protective clothing must be worn. |
| Special Hazards | No special precautions required. |

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|-----------------------|---------------------------------|
| Appearance | Clear red to dark red solution. |
| Odour | No specific odour. |
| pH | 4 @ 20°C |
| Boiling Point | Not available |
| Melting Point | Not applicable |
| Flash Point | Not applicable |
| Upper Flammable Limit | Not applicable |
| Lower Flammable Limit | Not applicable |
| Auto Ignition | Not applicable |
| Explosive Properties | No. |
| Oxidising Properties | No. |
| Vapour Pressure | Not applicable |
| Relative Density | 1.0000 |
| Water Solubility | Completely soluble in water. |

9.2 Other information

No data available.

Section 10. Stability & Reactivity

| | |
|---|---------------------------------|
| 10.1 Reactivity | No data available. |
| 10.2 Chemical Stability | Stable under normal conditions |
| 10.3 Possibility of hazardous reactions | No data available. |
| 10.4 Conditions to Avoid | No specific conditions. |
| 10.5 Incompatible Materials | No specific materials to avoid. |
| 10.6 Hazardous Decomposition Products | None unusual. |

Section 11. Toxicological Information

11.1 Information on toxicological effects

| | |
|----------------------|--|
| Eyes | Presents no significant health hazard to the eyes. |
| Skin | Presents no significant hazard by skin contact. |
| LD50 Skin | Not available |
| Ingestion | Presents no significant hazard by ingestion. |
| LD50 Oral | Not available |
| Inhalation | Presents no significant health hazard by inhalation. |
| LD50 Inhalation | Not available |
| TCLo | Not available |
| Carcinogenicity | Not considered to be a carcinogen. |
| Mutagenicity | Not considered to be a mutagen. |
| Reproductive Effects | Evidence of reproductive effects. |

Section 12. Ecological

| | |
|---------------------------------------|-----------------------------------|
| 12.1 Toxicity | No specific environmental hazard. |
| LC50 Algal | Not available |
| LC50 Crustacea | Not available |
| LC50 Fish | Not available |
| 12.2 Persistence and degradability | No data available. |
| 12.3 Bioaccumulative potential | No data available. |
| 12.4 Mobility in soil | No data available. |
| 12.5 Results of PBT & vPvB assessment | Assessment not required. |
| 12.6 Other adverse effects | None known at present. |

Section 13. Disposal Considerations

13.1 Waste treatment methods

| | |
|------------------------|--|
| Disposal Methods | Flush to drain. |
| Contaminated Packaging | Wash out containers with water. Use a licensed waste disposer. |

Section 14. Transport Information

| | |
|-----------------------------------|----------------------------------|
| 14.1 UN Number | Non-restricted |
| 14.2 Proper Shipping Name | Non-restricted |
| 14.3 Transport classes | |
| UN classification | None |
| Subsidiary hazard(s) | None |
| Transport category | None |
| ADR Hazard ID | Non-restricted |
| Tunnel Restriction Code | Non-restricted |
| 14.4 Packing Group | None |
| 14.5 Environment hazards | See section 12. |
| 14.6 Special precautions for user | No special precautions required. |
| 14.7 Transport in bulk | Not transported in bulk. |

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for substance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Reproductive toxicity, category 1B

Signal word Danger

Hazard Pictograms



Hazard Statements H360
May damage fertility or the unborn child.

Precautionary Statements P280, P308+P313, P501
Wear protective gloves / protective clothing / eye protection / face protection. IF exposed or concerned: Get medical advice/attention. Dispose of contents / container to an approved waste disposal plant

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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