



# **MATERIAL SAFETY DATA SHEET (SDS/MSDS)**

**BUFFER SOLUTION PH.9.0 (BORATE)**

CAS-No.: NA

Product Code: 00535

# MATERIAL SAFETY DATA SHEET (SDS/MSDS)

## BUFFER SOLUTION PH.9.0 (BORATE)

CAS-No.: NA

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Buffer Solution Ph.9.0 (borate)

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial For professional use only  
Use of the substance/mixture : Laboratory chemicals

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Company : Chemnovo Synthesis Pvt Ltd.  
N-226 Near Kumbhavali Naka  
Tarapur MIDC, Boisar-401 506  
Palghar, Maharashtra  
Telephone : +91 7400096089  
Email: export@chemnovo.in

#### 1.4. Emergency telephone number

Emergency number : + 91 7400096089 (9:00am – 6:00 pm)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]  
Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

No labelling applicable

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name | Product identifier | % | Classification according to Directive 67/548/EEC | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------|--------------------|---|--|---|
|      |                    |   |  |   |

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|   |  |           |                                    |   |
|---|--|-----------|------------------------------------|---|
| Water   | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2  | 99 - 100  | Not classified                     | Not classified                          |
| Boric Acid Ar/acs<br>substance listed as<br>REACH Candidate<br>(Boric acid) | (CAS-No.) 10043 35-3<br>(EC-No.) 233-139-2 | 0.3 - 0.5 | Repr.Cat.1; R60<br>Repr.Cat.1; R61 | Repr. 1A, H360                          |
| Potassium Chloride<br>AR  |  | 0.3 - 0.5 | Not classified                     | Not classified                          |
| Sodium Hydroxide<br>Pellets (or Pearls)<br>Extra Pure                       | (CAS-No.) 1310-73-2                        | 0.1 - 0.5 | C; R35                             | Skin Corr. 1A, H314<br>Eye Dam. 1, H318 |

Full text of H-statements: see section 16

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                                       |   |  |
|---------------------------------------|---|--|
| First-aid measures after inhalation   | : | Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.                    |
| First-aid measures after skin contact | : | Take off contaminated clothing. Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.  |
| First-aid measures after eye contact  | : | Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : | Rinse mouth out with water. If you feel unwell, seek medical advice  |

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

No additional information available

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

|                                |   |  |
|--------------------------------|---|--|
| Suitable extinguishing media   | : | dry chemical powder, alcohol-resistant foam, carbon dioxide (Co2). |
| Unsuitable extinguishing media | : | Do not use extinguishing media containing water                    |

**5.2. Special hazards arising from the substance or mixture**

No additional information available

**5.3. Advice for firefighter**

|                                |   |  |
|--------------------------------|---|--|
| Protection during firefighting | : | Do not attempt to take action without suitable protective equipment. |
|--------------------------------|---|--|

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel

**6.1.2. For emergency responders**

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Collect spillage. Shovel or sweep up and put in a closed container for disposal.

**6.4. Reference to other sections**

No additional information available

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Store in original container. Store in a dry place. Protect from sunlight.

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

No additional information available

**8.2. Exposure controls**

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear appropriate mask

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state : Liquid

Colour : Clear Colorless.

Odour : No data available

Odour threshold : No data available

pH : 9 at 25°C

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|  |                               |
|--|-------------------------------|
| Relative evaporation rate (butylacetate=1) | No data available             |
| Melting point                              | : No data available           |
| Freezing point                             | : No data available           |
| Boiling point                              | : 100 °C                      |
| Flash point                                | : No data available           |
| Auto-ignition temperature                  | : No data available           |
| Decomposition temperature                  | : No data available           |
| Flammability (solid, gas)                  | : No data available           |
| Vapour pressure                            | : No data available           |
| Relative vapour density at 20 °C           | : No data available           |
| Relative density                           | : No data available           |
| Density                                    | : 1 g/cm <sup>3</sup> at 20°C |
| Solubility                                 | : Water: Soluble at 20°C      |
| Log Pow                                    | : No data available           |
| Viscosity, kinematic                       | : No data available           |
| Viscosity, dynamic                         | : No data available           |
| Explosive properties                       | : No data available           |
| Oxidising properties                       | : No data available           |
| Explosive limits                           | : No data available           |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Direct sunlight.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No additional information available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                |                  |
|----------------|------------------|
| Acute toxicity | : Not classified |
| Irritation     | : Not classified |
| pH             | : 9 at 25°C      |

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|                           |   |                |
|---------------------------|---|----------------|
| Corrosivity               | : | Not classified |
| pH                        | : | 9 at 25°C      |
| Sensitisation             | : | Not classified |
| Repeated dose toxicity    | : | Not classified |
| Carcinogenicity           | : | Not classified |
| Mutagenicity              | : | Not classified |
| Toxicity for reproduction | : | Not classified |

**SECTION 12: Ecological information****12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

| Component                      |   |
|--------------------------------|---|
| BORIC ACID AR/ACS (10043-35-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

No additional information available

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / AND

**14.1. UN number**

|               |   |                |
|---------------|---|----------------|
| UN-No. (ADR)  | : | Not applicable |
| UN-No. (IMDG) | : | Not applicable |
| UN-No.(IATA)  | : | Not applicable |
| UN-No.(AND)   | : | Not applicable |
| UN-No. (RID)  | : | Not applicable |

**14.2. UN proper shipping name**

|                             |   |                |
|-----------------------------|---|----------------|
| Proper Shipping Name (ADR)  | : | Not applicable |
| Proper Shipping Name (IMDG) | : | Not applicable |

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|                             |   |                |
|-----------------------------|---|----------------|
| Proper Shipping Name (IATA) | : | Not applicable |
| Proper Shipping Name (ADN)  | : | Not applicable |
| Proper Shipping Name (RID)  | : | Not applicable |

**14.3. Transport hazard class(es)**

ADR

|                                  |   |                |
|----------------------------------|---|----------------|
| Transport hazard class(es) (ADR) | : | Not applicable |
|----------------------------------|---|----------------|

IMDG

|                                   |   |                |
|-----------------------------------|---|----------------|
| Transport hazard class(es) (IMDG) | : | Not applicable |
|-----------------------------------|---|----------------|

IATA

|                                   |   |                |
|-----------------------------------|---|----------------|
| Transport hazard class(es) (IATA) | : | Not applicable |
|-----------------------------------|---|----------------|

AND

|                                  |   |                |
|----------------------------------|---|----------------|
| Transport hazard class(es) (ADN) | : | Not applicable |
|----------------------------------|---|----------------|

RID

|                                  |   |                |
|----------------------------------|---|----------------|
| Transport hazard class(es) (RID) | : | Not applicable |
|----------------------------------|---|----------------|

**14.4. Packing group**

|                     |   |                |
|---------------------|---|----------------|
| Packing group (ADR) | : | Not applicable |
|---------------------|---|----------------|

|                      |   |                |
|----------------------|---|----------------|
| Packing group (IMDG) | : | Not applicable |
|----------------------|---|----------------|

|                      |   |                |
|----------------------|---|----------------|
| Packing group (IATA) | : | Not applicable |
|----------------------|---|----------------|

|                     |   |                |
|---------------------|---|----------------|
| Packing group (ADN) | : | Not applicable |
|---------------------|---|----------------|

|                     |   |                |
|---------------------|---|----------------|
| Packing group (RID) | : | Not applicable |
|---------------------|---|----------------|

**14.5. Environmental hazards**

|                               |   |    |
|-------------------------------|---|----|
| Dangerous for the environment | : | No |
|-------------------------------|---|----|

|                  |   |    |
|------------------|---|----|
| Marine pollutant | : | No |
|------------------|---|----|

|                   |   |  |
|-------------------|---|--|
| Other information | : | No supplementary information available |
|-------------------|---|--|

**14.6. Special precautions for user**

– Overland transport

No data available

– Transport by sea

No data available

– Air transport

No data available

– Inland waterway transport

No data available

– Rail transport

No data available

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

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Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Boric acid (EC 233-139-2, CAS 10043-35-3)

Contains no REACH Annex XIV substances

**15.1.2. National regulations****Germany**

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV :

Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Netherlands**

SZW-lijst van kankerverwekkende stoffen

None of the components are listed

SZW-lijst van mutagene stoffen :

None of the components are listed

NIET-limitatieve lijst van voor de :

None of the components are listed

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de :

BORIC ACID AR/ACS is listed

voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de :

BORIC ACID AR/ACS is listed

voortplanting giftige stoffen – Ontwikkeling

**Denmark**

Recommendations Danish Regulation :

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Full text of R-, H- and EUH-statements:

|               |   |
|---------------|---|
| Eye Dam. 1    | Serious eye damage/eye irritation, Category 1 |
| Repr. 1A      | Reproductive toxicity, Category 1A            |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A        |
| H314          | Causes severe skin burns and eye damage.      |
| H318          | Causes serious eye damage.                    |
| H360          | May damage fertility or the unborn child.     |
| R35           | Causes severe burns                           |
| R60           | May impair fertility                          |
| R61           | May cause harm to the unborn child            |
| C             | Corrosive                                     |

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****BUFFER SOLUTION PH.9.0 (BORATE)****CAS-No.: NA****Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.chemnovo.in](http://www.chemnovo.in) for additional terms and conditions of sale.

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