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**MATERIAL SAFETY DATA SHEET (MSDS)**  
**BORAX AR (DECAHYDRATE) (DI-SODIUM TETRA BORATE)**

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Trade name : BORAX AR (DECAHYDRATE) (DI-SODIUM TETRA BORATE)

Product code : B0045605000

Identification of the product : Disodium tetraborate decahydrate; borax decahydrate  
CAS No :1303-96-4  
EC No :215-540-4  
Annex No :005-011-01-1

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

Use : Industrial. For professional use only.

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

Company identification : SUVCHEM  
Chaitanya Tower, 2nd Floor, Office # 206,  
Siddharth Nagar, S.V. Road,  
Goregaon (West), Mumbai - 400062,  
Maharashtra, India.  
Contact: +91 22 28725393 / 94 / 95  
Email ID: info@suvchem.com/care@suvchem.com

**1.4. Emergency telephone number**

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

**2. Hazards identification -DSD**

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

**Classification EC 67/548 or EC 1999/45**

Classification : Repr. Cat. 2; R60-61

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

Health hazards : Reproductive toxicity - Fertility - Category 1B - Danger (CLP : Repr. 1B) H360  
Reproductive toxicity - Unborn Child - Category 1B - Danger (CLP : Repr. 1B)  
H360

**2.2. Label elements**

**Labelling EC 67/548 or EC 1999/45**

## MATERIAL SAFETY DATA SHEET (MSDS)

### BORAX AR (DECAHYDRATE) (DI-SODIUM TETRA BORATE)

#### 2. Hazards identification -DSD (continued)

Symbol(s)



Symbol(s)

: T : Toxic

R Phrase(s)

: R60 : May impair fertility.  
R61 : May cause harm to the unborn child.

S Phrase(s)

: S53 : Avoid exposure - obtain special instructions before use.  
S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).

Contains

: Disodium tetraborate decahydrate; borax decahydrate

#### Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Danger

Hazard statements

: H360F : May damage fertility.  
H360D: May damage the unborn child.

Precautionary statements

• General

: P201: Obtain special instructions before use.

• Prevention

: P281: Use personal protective equipment as required.

• Response

: P308+P313: If exposed or concerned : get medical advice.

• Storage

: P405: Store locked up.

• Disposal considerations

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special labelling

: Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)

Contains

: Disodium tetraborate decahydrate; borax decahydrate

#### 2.3. Other hazards

Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 3. Composition/information on ingredients

Substance / Preparation

: Disodium tetraborate decahydrate; borax decahydrate  
CAS No :1303-96-4  
EC No :215-540-4  
Annex No :005-011-01-1  
Substance.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**BORAX AR (DECAHYDRATE) (DI-SODIUM TETRA BORATE)**
**3. Composition/information on ingredients (continued)**

| Substance name                                      | Contents | CAS No    | EC No     | Annex No     | REACH Ref. | Classification  |
|---|----------|-----------|-----------|--------------|------------|---|
| Disodium tetraborate decahydrate; borax decahydrate | 100 %    | 1303-96-4 | 215-540-4 | 005-011-01-1 | ----       | Repr. Cat. 2; R60<br>Repr. Cat. 2; R61<br>-----<br>Repr. 1B _ H360F<br>Repr. 1B _ H360D |

Contains no other components or impurities which will influence the classification of the product.

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

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | : Assure fresh air breathing. Allow the victim to rest.   |
| <b>Skin contact</b> | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. |
| <b>Eye contact</b>  | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.          |
| <b>Ingestion</b>    | : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.  |

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

**Symptoms relating to use** : May damage fertility. May damage the unborn child.

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

**General information** : P308+P313: If exposed or concerned : get medical advice. Never give anything by mouth to an unconscious person. If exposed or concerned : get medical advice.

**5. Fire-fighting measures**
**5.1. Extinguishing media**

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand.   |
| <b>Unsuitable extinguishing media</b> | : Do not use a heavy water stream.                       |
| <b>Surrounding fires</b>              | : Use water spray or fog for cooling exposed containers. |

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

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

**5.3. Advice for fire-fighters**

|                                |  |
|--------------------------------|--|
| <b>Protection against fire</b> | : Do not enter fire area without proper protective equipment, including respiratory protection.              |
| <b>Special procedures</b>      | : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. |

## MATERIAL SAFETY DATA SHEET (MSDS)

### BORAX AR (DECAHYDRATE) (DI-SODIUM TETRA BORATE)

#### 6. Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

**For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

##### 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

##### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

**Handling** : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Obtain special instructions before use.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

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

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

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

**Specific end use(s)** : None.

#### 8. Exposure controls/personal protection

##### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**BORAX AR (DECAHYDRATE) (DI-SODIUM TETRA BORATE)**
**8. Exposure controls/personal protection (continued)**

- Respiratory protection : Wear approved mask.
- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Others : When using, do not eat, drink or smoke.

**8.2. Control parameters**

Occupational Exposure Limits : No data available.

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

|  |                        |
|--|------------------------|
| Physical state at 20 °C                | : Solid.               |
| Colour                                 | : White crystalline    |
| Odour                                  | : Odorless             |
| Odour threshold                        | : No data available.   |
| pH value                               | : No data available.   |
| Melting point [°C]                     | : 62 °C                |
| Decomposition point [°C]               | : N/A                  |
| Critical temperature [°C]              | : N/A                  |
| Auto-ignition temperature [°C]         | : N/A                  |
| Flammability (solid, gas)              | : N/A                  |
| Flash point [°C]                       | : N/A                  |
| Boiling point [°C]                     | : 320°C                |
| Initial boiling point [°C]             | : N/A                  |
| Final boiling point [°C]               | : N/A                  |
| Evaporation rate                       | : N/A                  |
| Vapour pressure [20°C]                 | : N/A                  |
| Vapour pressure mm/Hg                  | : N/A                  |
| Vapour density                         | : N/A                  |
| Density [g/cm <sup>3</sup> ]           | : 1,73                 |
| Relative density, gas (air=1)          | : N/A                  |
| Relative density, liquid (water=1)     | : N/A                  |
| Solubility in water [% weight]         | : 39 g/l at 20 °C - co |
| Solubility in water                    | : N/A                  |
| Log Pow octanol / water at 20°C        | : No data available.   |
| Solubility                             | : 9.2                  |
| Viscosity at 40°C [mm <sup>2</sup> /s] | : N/A                  |

**MATERIAL SAFETY DATA SHEET (MSDS)**
**BORAX AR (DECAHYDRATE) (DI-SODIUM TETRA BORATE)**
**9. Physical and chemical properties (continued)**
**9.2. Other information**

|                              |                      |
|------------------------------|----------------------|
| Explosive properties         | : N/A                |
| Explosion limits - upper [%] | : N/A                |
| Explosion limits - lower [%] | : N/A                |
| Oxidising properties         | : No data available. |

**10. Stability and reactivity**
**10.1. Reactivity**

|            |                    |
|------------|--------------------|
| Reactivity | : Not established. |
|------------|--------------------|

**10.2. Chemical stability**

|                    |  |
|--------------------|--|
| Chemical stability | : Stable under recommended storage conditions. |
|--------------------|--|

**10.3. Possibility of hazardous reactions**

|                     |                    |
|---------------------|--------------------|
| Hazardous reactions | : Not established. |
|---------------------|--------------------|

**10.4. Conditions to avoid**

|                     |  |
|---------------------|--|
| Conditions to avoid | : Direct sunlight. Extremely high or low temperatures. |
|---------------------|--|

**10.5. Incompatible materials**

|                    |                               |
|--------------------|-------------------------------|
| Materials to avoid | : Strong acids. Strong bases. |
|--------------------|-------------------------------|

**10.6. Hazardous decomposition products**

|                                  |   |
|----------------------------------|---|
| Hazardous decomposition products | : Fumes. Carbon monoxide. Carbon dioxide. |
|----------------------------------|---|

**11. Toxicological information**
**11.1. Information on toxicological effects**

|                |   |
|----------------|---|
| Acute toxicity |   |
| • Inhalation   | : Based on available data, the classification criteria are not met. |
| • Dermal       | : Based on available data, the classification criteria are not met. |
| • Ingestion    | : Based on available data, the classification criteria are not met. |
| Corrosion      | : Based on available data, the classification criteria are not met. |

## MATERIAL SAFETY DATA SHEET (MSDS)

### BORAX AR (DECAHYDRATE) (DI-SODIUM TETRA BORATE)

#### 11. Toxicological information (continued)

|                               |   |
|-------------------------------|---|
| <b>Irritation</b>             | : Based on available data, the classification criteria are not met. |
| <b>Sensitization</b>          | : Based on available data, the classification criteria are not met. |
| <b>Mutagenicity</b>           | : Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>        | : Based on available data, the classification criteria are not met. |
| <b>Toxic for reproduction</b> | : May damage fertility.<br>May damage the unborn child.             |
| <b>STOT-single exposure</b>   | : Based on available data, the classification criteria are not met. |
| <b>STOT-repeated exposure</b> | : Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>      | : Based on available data, the classification criteria are not met. |

#### 12. Ecological information

##### 12.1. Toxicity

**Toxicity information** : Not established.

##### 12.2. Persistence - degradability

**Persistence - degradability** : Biodegradable.

##### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : Not established.

##### 12.4. Mobility in soil

**Mobility in soil** : Not established.

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

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

##### 12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.

#### 13. Disposal considerations

##### 13.1. Waste treatment methods

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
Dispose of this material and its container to hazardous or special waste collection

**MATERIAL SAFETY DATA SHEET (MSDS)**
**BORAX AR (DECAHYDRATE) (DI-SODIUM TETRA BORATE)**
**13. Disposal considerations (continued)**

point, in accordance with local, regional, national and/or international regulation.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

General information : Not regulated.

**14.2. Sea transport (IMDG) [English only]**

General information : Not regulated.

**14.3. Air transport (ICAO-IATA) [English only]**

General information : Not regulated.

**15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII : With the exception of those listed below:  
The components of this product are not subject to restrictions.  
Annex XVII

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

**15.2. Chemical Safety Assessment**

Chemical Safety Assessment : It has not been carried out.

**16. Other information**

Revision : Revision - See : \*

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.  
vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

List of relevant R phrases (heading 3) : R60 : May impair fertility.  
R61 : May cause harm to the unborn child.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**