

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier****Product Name** PH-9**Other means of identification****Product Description** 9 pH units**Recommended use of the chemical and restrictions on use****Recommended Use** Laboratory chemicals.**Uses advised against** No information available**Details of the supplier of the safety data sheet****Company**Inorganic Ventures  
300 Technology Drive  
Christiansburg, VA 24073  
web: www.inorganicventures.com**Emergency telephone number****Emergency Telephone Number**Chemtrec 1-800-424-9300 (North America)  
Chemtrec +1 703-741-5970 (International)

## 2. HAZARDS IDENTIFICATION

**GHS****Classification**

|                       |             |
|-----------------------|-------------|
| Carcinogenicity       | Category 1B |
| Reproductive toxicity | Category 1B |

**Label Elements****Danger****Hazard statements**May cause cancer  
May damage fertility or the unborn child**Appearance** clear / colorless**Physical state** Liquid**Odor** Odorless**Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name                                | CAS No     | Weight-% |
|----------------------------------------------|------------|----------|
| Boric acid (H <sub>3</sub> BO <sub>3</sub> ) | 10043-35-3 | 0.31     |

**4. FIRST AID MEASURES****Description of first aid measures**

|                     |                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin Contact</b> | Wash skin with soap and water.                                                                                       |
| <b>Inhalation</b>   | Remove to fresh air.                                                                                                 |
| <b>Ingestion</b>    | Clean mouth with water and drink afterwards plenty of water.                                                         |

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

|                                            |                           |
|--------------------------------------------|---------------------------|
| <b>Most Important Symptoms and Effects</b> | No information available. |
|--------------------------------------------|---------------------------|

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

|                           |                       |
|---------------------------|-----------------------|
| <b>Notes to Physician</b> | Treat symptomatically |
|---------------------------|-----------------------|

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

**Special Exposure Hazards Arising from the Substance/Mixture**

Thermal decomposition can lead to release of irritating gases and vapors

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Ensure adequate ventilation.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. See Section 12 for additional Ecological Information.

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

**Methods for Cleaning up** Dam up. Neutralise with lime milk; soda. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

**7. HANDLING AND STORAGE****Precautions for safe handling****Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

| Chemical name                                              | ACGIH TLV                                                                                                                                                                             | OSHA PEL | NIOSH IDLH |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|
| Boric acid (H <sub>3</sub> BO <sub>3</sub> )<br>10043-35-3 | 6 mg/m <sup>3</sup> STEL (inhalable particulate matter, listed under Borate compounds, inorganic) 6 mg/m <sup>3</sup> STEL (inhalable particulate matter)<br>TWA: 2 mg/m <sup>3</sup> |          |            |

**Appropriate engineering controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                |                   |
|----------------|-------------------|
| Physical state | Liquid            |
| Appearance     | clear / colorless |
| Odor           | Odorless          |

|                               |                   |
|-------------------------------|-------------------|
| <b>Property</b>               | <b>Values</b>     |
| pH - VALUE 1                  | 9                 |
| Melting Point/Range           | No data available |
| Boiling point / boiling range | 100 °C            |
| Evaporation rate              | No data available |
| Flammability (solid, gas)     | No data available |
| Vapor pressure @20 °C (kPa)   | No data available |
| Vapor density                 | No data available |
| Relative Density              | No data available |

|                                        |                          |
|----------------------------------------|--------------------------|
| Specific gravity - VALUE 1             | No data available        |
| Water solubility                       | Miscible                 |
| Partition coefficient: n-octanol/water | No data available        |
| Autoignition temperature               | No data available        |
| Decomposition temperature              | No data available        |
| Dynamic viscosity - VALUE 1            | No data available        |
| Explosive Properties                   | No information available |
| Oxidizing Properties                   | No information available |
| <u>Other information</u>               |                          |
| VOC Content (%)                        | No information available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### Conditions to Avoid

None known.

### Incompatible materials

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|                            |                                                                              |
|----------------------------|------------------------------------------------------------------------------|
| <b>Product Information</b> | Product does not present an acute toxicity hazard based on known information |
| <b>Inhalation</b>          | No data available.                                                           |
| <b>Eye Contact</b>         | No data available.                                                           |
| <b>Skin Contact</b>        | No data available.                                                           |
| <b>Ingestion</b>           | No data available.                                                           |

| Chemical name                   | Oral LD50                                 | Dermal LD50                                      | Inhalation LC50                                               |
|---------------------------------|-------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|
| Boric acid (H3BO3) - 10043-35-3 | = 2660 mg/kg ( Rat ) = 3765 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) >= 2000 mg/kg ( Rabbit ) | > 0.16 mg/L ( Rat ) 4 h >= 2120 mg/m <sup>3</sup> ( Rat ) 4 h |

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Mutagenic Effects** No information available.

### **Carcinogenic effects**

| Chemical name                    | ACGIH | IARC | NTP | OSHA |
|----------------------------------|-------|------|-----|------|
| Boric acid (H3BO3)<br>10043-35-3 |       |      |     | X    |

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

#### Numerical measures of toxicity - Product Information

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### **Ecotoxicity effects**

Contains 0 % of components with unknown hazards to the aquatic environment

| Chemical name                    | Algae/aquatic plants | Fish                                                      | Toxicity to microorganisms | Crustacea                                   |
|----------------------------------|----------------------|-----------------------------------------------------------|----------------------------|---------------------------------------------|
| Boric acid (H3BO3)<br>10043-35-3 |                      | 1020: 72 h Carassius<br>auratus mg/L LC50<br>flow-through |                            | EC50 48 h 115 - 153 mg/L<br>(Daphnia magna) |

#### Persistence and Degradability

No information available.

#### Bioaccumulation

No information available.

| Chemical name                    | Partition coefficient |
|----------------------------------|-----------------------|
| Boric acid (H3BO3)<br>10043-35-3 | -0.757                |

#### Other Adverse Effects

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from Residues/Unused Products** Dispose of in accordance with federal, state and local regulations  
**Contaminated Packaging** Do not reuse empty containers.

| Chemical name                    | California Hazardous Waste Status |
|----------------------------------|-----------------------------------|
| Boric acid (H3BO3)<br>10043-35-3 | Toxic                             |

### 14. TRANSPORT INFORMATION

#### IMDG

14.1. UN-No Not regulated  
 14.2. Proper shipping name Not regulated  
 14.3. Transport hazard class(es) Not regulated  
 14.4. Packing Group Not regulated  
     Description Not applicable  
 14.5. Marine Pollutant None  
 14.6. Special Provisions None  
 No information available Transport No information available  
 in bulk according  
 to Annex II of MARPOL 73/78 and  
 the IBC Code

#### RID

14.1. UN-No Not regulated  
 14.2. Proper shipping name Not regulated  
 14.3. Hazard Class Not regulated  
 14.4. Packing Group Not regulated  
     Description Not applicable  
 14.5. Environmental hazard None

|                                   |                |
|-----------------------------------|----------------|
| <b>14.6. Special Provisions</b>   | None           |
| <b><u>ADR</u></b>                 |                |
| <b>14.1. UN-No</b>                | Not regulated  |
| <b>14.2. Proper shipping name</b> | Not regulated  |
| <b>14.3. Hazard Class</b>         | Not regulated  |
| <b>14.4. Packing Group</b>        | Not regulated  |
| <b>Description</b>                | Not applicable |
| <b>14.5. Environmental hazard</b> | None           |
| <b>14.6. Special Provisions</b>   | None           |

|                                   |                |
|-----------------------------------|----------------|
| <b><u>ICAO</u></b>                |                |
| <b>14.1. UN-No</b>                | Not regulated  |
| <b>14.2. Proper Shipping Name</b> | Not regulated  |
| <b>14.3. Hazard Class</b>         | Not regulated  |
| <b>14.4. Packing Group</b>        | Not regulated  |
| <b>Description</b>                | Not applicable |
| <b>14.5. Environmental hazard</b> | None           |
| <b>14.6. Special Provisions</b>   | None           |

|                                         |                |
|-----------------------------------------|----------------|
| <b><u>IATA-DGR</u></b>                  |                |
| <b>14.1. UN-No</b>                      | Not regulated  |
| <b>14.2. Proper shipping name</b>       | Not regulated  |
| <b>14.3. Transport hazard class(es)</b> | Not regulated  |
| <b>14.4. Packing Group</b>              | Not regulated  |
| <b>Description</b>                      | Not applicable |
| <b>14.5. Environmental hazard</b>       | None           |
| <b>14.6. Special Provisions</b>         | None           |

## 15. REGULATORY INFORMATION

### **International Inventories**

|                      |          |
|----------------------|----------|
| <b>TSCA</b>          | Complies |
| <b>DSL/NDL</b>       | Complies |
| <b>EINECS/ELINCS</b> | Complies |
| <b>ENCS</b>          | Complies |
| <b>IECSC</b>         | Complies |
| <b>KECL</b>          | Complies |
| <b>PICCS</b>         | Complies |
| <b>AICS</b>          | Complies |

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

|                                          |                |
|------------------------------------------|----------------|
| <b>Acute health hazard</b>               | Not classified |
| <b>Chronic Health Hazard</b>             | Not classified |
| <b>Fire hazard</b>                       | Not classified |
| <b>Sudden Release of Pressure Hazard</b> | No             |
| <b>Reactive Hazard</b>                   | Not classified |

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40

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CFR 122.42)**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical name                    | New Jersey | Massachusetts | Pennsylvania |
|----------------------------------|------------|---------------|--------------|
| Boric acid (H3BO3)<br>10043-35-3 | X          |               |              |

**U.S. EPA Label Information**

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

**Revision Date**

12-Jul-2021

**Revision Note**

No information available

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**