



**GHS Label elements, including precautionary statements****Emergency Overview**

|   |                        |
|---|------------------------|
| <b>Signal word</b>  | <b>Danger</b>          |
| <b>Hazard Statements</b><br>May damage fertility or the unborn child              |                        |
|  |                        |
| <b>Appearance</b>   | Tan                    |
| <b>Physical state</b>   | Viscous liquid, Liquid |
| <b>Odor</b>   | Mild                   |

**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)**

Not applicable

**Unknown Toxicity**

46.55309% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Causes mild skin irritation

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name         | CAS No      | Weight-% | Trade Secret |
|-----------------------|-------------|----------|--------------|
| Supplier Trade Secret | Proprietary | 3 - 7    | *            |
| Boric acid            | 10043-35-3  | 0.1 - 1  | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

#### First aid measures

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.     |
| <b>Skin contact</b> | Wash with soap and water.   |
| <b>Inhalation</b>   | Remove to fresh air.  |
| <b>Ingestion</b>    | Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. |

#### 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. |
|---------------------------|------------------------|

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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

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

### Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

No information available.

### Hazardous Combustion Products

Carbon oxides.

### Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

### 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 Avoid contact with eyes.

### Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage** Do not freeze. Keep container tightly closed. Store locked up.

**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<br>10043-35-3 | STEL: 6 mg/m <sup>3</sup> inhalable fraction<br>TWA: 2 mg/m <sup>3</sup> inhalable fraction | -        |            |

*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health*

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

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

**Eye/face protection** No special protective equipment required.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                       |                        |             |      |
|-----------------------|------------------------|-------------|------|
| <b>Physical state</b> | Viscous liquid, Liquid | <b>Odor</b> | Mild |
| <b>Appearance</b>     | Tan                    |             |      |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks</u> | <u>Method</u>            |
|--|-------------------|----------------|--------------------------|
| Color                                  | Tan               | Odor Threshold | No information available |
| pH                                     | 4.5               | None known     |                          |
| Melting / freezing point               | 0 °C / 32 °F      | None known     |                          |
| Boiling point / boiling range          | 100 °C / 212 °F   | None known     |                          |
| Flash Point                            | Not applicable    | None known     |                          |
| Evaporation Rate                       | No data available | None known     |                          |
| Flammability (solid, gas)              | Not applicable    | None known     |                          |
| Flammability Limit in Air              |                   |                |                          |
| Upper flammability limit               | Not applicable    |                |                          |
| Lower flammability limit               | Not applicable    |                |                          |
| Vapor pressure                         | No data available | None known     |                          |
| Vapor density                          | No data available | None known     |                          |
| Specific Gravity                       | 1.01              | None known     |                          |
| Water Solubility                       | Miscible in water | None known     |                          |
| Solubility in other solvents           | No data available | None known     |                          |
| Partition coefficient: n-octanol/water | Not applicable    | None known     |                          |
| Autoignition temperature               | Not applicable    | None known     |                          |
| Decomposition temperature              | Not applicable    | None known     |                          |
| Kinematic viscosity                    | No data available | None known     |                          |
| Dynamic viscosity                      | 5000              | None known     |                          |
| Explosive properties                   | Not applicable    |                |                          |
| Oxidizing properties                   | Not applicable    |                |                          |
| <b><u>Other Information</u></b>        |                   |                |                          |
| Softening Point                        | Not applicable    |                |                          |
| VOC Content (g/L)                      | 2.53              |                |                          |
| Particle Size                          | Not applicable    |                |                          |
| Particle Size Distribution             |                   |                |                          |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable.

### 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 based on information supplied.

### Incompatible materials

None known based on information supplied.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

#### Component Information

| Chemical Name            | Oral LD50            | Dermal LD50             | Inhalation LC50         |
|--------------------------|----------------------|-------------------------|-------------------------|
| Boric acid<br>10043-35-3 | = 2660 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 2.03 mg/L ( 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.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name            | ACGIH | IARC     | NTP | OSHA |
|--------------------------|-------|----------|-----|------|
| Boric acid<br>10043-35-3 |       | Group 2A |     | X    |

**IARC (International Agency for Research on Cancer)**

Group 2A - Probably Carcinogenic to Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** Contains a known or suspected reproductive toxin.

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

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

**Chronic Toxicity** No known effect based on information supplied. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. Possible risk of irreversible effects.

**Target Organ Effects** Reproductive System.

**Aspiration Hazard** No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

Not applicable

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name            | Toxicity to Algae | Toxicity to Fish                             | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|--------------------------|-------------------|--|----------------------------|----------------------------|
| Boric acid<br>10043-35-3 |                   | 72h LC50: = 1020 mg/L<br>(Carassius auratus) |                            | 48h EC50: 115 - 153 mg/L   |

**Persistence and Degradability**

No information available.

**Bioaccumulation**

| Chemical Name            | Log Pow |
|--------------------------|---------|
| Boric acid<br>10043-35-3 | -0.757  |

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

|                               |   |
|-------------------------------|---|
| <b>Disposal methods</b>       | This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). |
| <b>Contaminated Packaging</b> | Dispose of contents/containers in accordance with local regulations.                            |
| <b>US EPA Waste Number</b>    | U154  |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name            | California Hazardous Waste |
|--------------------------|----------------------------|
| Boric acid<br>10043-35-3 | Toxic                      |

**14. TRANSPORT INFORMATION**

|                             |               |
|-----------------------------|---------------|
| <b><u>DOT</u></b>           | NOT REGULATED |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>Hazard Class</b>         | N/A           |

|                   |               |
|-------------------|---------------|
| <b><u>TDG</u></b> | Not regulated |
|-------------------|---------------|

|                      |               |
|----------------------|---------------|
| <u>MEX</u>           | Not regulated |
| <u>ICAO</u>          | Not regulated |
| <u>IATA</u>          | Not regulated |
| Proper Shipping Name | NON REGULATED |
| Hazard Class         | N/A           |
| <u>IMDG/IMO</u>      | Not regulated |
| Hazard Class         | N/A           |
| <u>RID</u>           | Not regulated |
| <u>ADR</u>           | Not regulated |
| <u>ADN</u>           | Not regulated |

## 15. REGULATORY INFORMATION

### International Inventories

|      |  |
|------|--|
| TSCA | Complies   |
| DSL  | All components are listed either on the DSL or NDSL. |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### US 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

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | No  |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

#### CWA (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 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

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

| Chemical Name            | California Proposition 65 |
|--------------------------|---------------------------|
| Methyl alcohol - 67-56-1 | Developmental             |

**U.S. State Right-to-Know Regulations****International Regulations****Canada****WHMIS Hazard Class**

Not determined

## 16. OTHER INFORMATION

|             |                          |                       |                          |  |
|-------------|--------------------------|-----------------------|--------------------------|--|
| <b>NFPA</b> | <b>Health Hazards</b> 0  | <b>Flammability</b> 0 | <b>Instability</b> 0     | <b>Physical and Chemical Hazards</b> - |
| <b>HMIS</b> | <b>Health Hazards</b> 1* | <b>Flammability</b> 0 | <b>Physical Hazard</b> 0 | <b>Personal Protection</b> X           |

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

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**Revision Note** No information available

**Disclaimer**

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**End of Safety Data Sheet**