SAFETY DATA SHEET



1. Identification

Product identifier Boron 10

Recommended use Agricultural- Micronutrient Fertilizer

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Fertizona Casa Grande LLC **Address** 2580 South Peart Road

Casa Grande, Arizona 85193-9024

Telephone Main Office (520)-836-7477

Website www.fertizona.com

Emergency phone number INFOTRAC (24 hours): (800) 535-5053

2. Hazard(s) identification

Physical hazardsAcute oralCategory 4Health hazardsSerious eye irritationCategory 2A

Specific target organ toxicity, repeated

exposure Category 3

Environmental hazards Hazardous to aquatic environment Category 2

OSHA defined hazards Not classified.

Label elements





Signal word Warning

Hazard statement Harmful if swallowed. Causes serious eye irritation. May cause damage to organs through

prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If swallowed: Call a Poison Control Center of Doctor if you feel unwell. If exposed or concerned: Get medical advice/attention. If eye irritation persists: Get

medical advice/attention.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Boric acid (H3BO3) reaction products with ethanolamine		94095-04-2	70 - < 80

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Exposed individuals may experience eye tearing, redness, and discomfort. Irritation of eyes.

Prolonged exposure may cause chronic effects.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire-fighting

equipment/instructions

Specific methods

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Move containers from fire area if you can do so without risk.

During fire, gases hazardous to health may be formed.

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Flash point: > 200° F
Test Method: ASTM D-56

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Storage and Handling

Storage: Store in tightly closed original labeled containers in a cool, well ventilated, dry place at

temperatures above 40° F, but less than 120° F. Do not store in contact with brass. Do not store

near food or feeds. Do not stack pallets more than two (2) high.

Transfer Equipment: Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

Keep out of reach of children. Avoid contact with eyes, skin, and clothing. Avoid inhalation of spray mists. Wash thoroughly after handling. Remove contaminated clothing and wash thoroughly before reuse. Do not contaminate feed and foodstuffs. Pregnant or breastfeeding

women must not handle this product. Observe good industrial hygiene practices.

Eyes:

Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do

not wear contact lenses when handling.

8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide

eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory protection

Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Aqueous solution.

Physical state Liquid. Form Liquid.

Color Colourless to light yellow.

Odor Odorless.

Odor threshold Not available.

pH 7 - 9

Salt-Out / Crystallization Temp < 32 °F (< 0 °C) estimated

Melting point/freezing point

Not available.

Initial boiling point and boiling range

> 212 °F (> 100 °C) estimated

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.26 hPa estimated

Vapor density Not available.

Relative density 1.34 g/cm3 (typical)

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Not available. **Viscosity**

Other information

Percent volatile 60.59 % estimated 7.5 - 9.5 (10% Solution) pH in aqueous solution Pounds per gallon 11.2 lb/gal (typical)

Shelf life > 2 years

VOC (Weight %) 20 % estimated

10. Stability and reactivity

Stability: Stable under normal conditions.

Conditions To Avoid: None known

Incompatibility:

Contact with brass or strong oxidizing agents. **Hazardous Decomposition**

Products: Thermal degradation at high temperatures above 575° C (1067° F) may produce sulfur trioxide.

Hazardous Polymerization: Will not occur

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

May cause damage to organs through prolonged or repeated exposure by inhalation. Inhalation

Skin contact No adverse effects due to skin contact are expected.

Eve contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Exposed individuals may experience eye tearing, redness, and discomfort. Irritation of eyes.

Information on toxicological effects

Not available. **Acute toxicity**

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation

Serious eve damage/eve

irritation

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child. Reproductive toxicity

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect with long lasting

effects on the environment.

No data is available on the degradability of this product. Persistence and degradability

Not available. Bioaccumulative potential No data available. Mobility in soil

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions**

contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

16. Other information, including date of preparation or last revision

Issue date 5/05 Revision date 2/18

Disclaimer The information provided in this Safety Data Sheet is correct to the best of Manufacturer's

knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its owns tests of

the Product to determine suitability of the Product for user's particular use.