GENESIS Mor-Bor 17

SAFETY DATA SHEET

GENESIS AGRI-PRODUCTS 2522 OLD TOWN ROAD UNION GAP, WASHINGTON 98903

Emergency Phone # (509) 452-0302

1. IDENTIFICATION

PRODUCT IDENTIFIER: Mor-Bor 17 **CHEMICAL NAME:** Boric Acid

SYNONYMS: Orthoboric acid, boracic acid GENERIC DESCRIPTION: Micronutrient Fertilizer

RECOMMENDED USE: Ag Product – Nutrients **RESTRICTIONS ON USE:** None known

CHEMICAL FORMULA: Boric acid, Nonylphenol, Water

MANUFACTURER INFORMATION

COMPANY NAME: GENESIS AGRI-PRODUCTS

ADDRESS: 2522 OLD TOWN ROAD

UNION GAP, WA 98903

TELEPHONE: (509) 575-8382

EMERGENCY PHONE:

US: 1-800-424-9300 (CHEMTREC)

INTERNATIONAL: 1-202-483-7616

2. HAZARDS IDENTIFICATION

OSHA REGULATED COMPONENTS: None Known HEALTH HAZARDS: Suspected of damaging

fertility or the unborn child. **SIGNAL WORD:** WARNING

HAZARD STATEMENT: Suspected of damaging fertility or the unborn child.

GHS Classification

LABEL ELEMENTS:

Carcinogenicity: Not available.

H302: Reproductive Toxicity 2, Suspected of damaging fertility or the unborn child.

Product name: Mor-Bor 17 Issue Date: 03-26-2018 Page 1 of 10

PRECAUTIONARY STATEMENTS

PREVENTION - Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor.

Wash thoroughly after handling. Do not eat, drink or smoke when using this

product. Wear gloves and eye/face protection when handling.

RESPONSE - If swallowed: Call a poison center/doctor if you feel unwell. If inhaled:

Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel

unwell. Rinse mouth. If eye irritation persists: Get medical attention.

STORAGE - Store locked up.

DISPOSAL - Dispose of contents/container to an approved waste disposal plant

POTENTIAL HEALTH EFFECTS

Carcinogenicity: No known carcinogens present.

3. COMPOSITION/INGREDIENTS

CHEMICAL NAME	CAS#	Percentage by Weight
Boric acid	10043-35-3	>98
Nonylphenol	9016-45-9	<0.5
Water	7732-18-5	<1.5

4. FIRST-AID MEASURE

SYMPTOMS AND EFFECTS OF EXPOSURE & INSTRUCTIONS FOR SPECIAL MEDICAL TREATMENT

SKIN CONTACT: Immediately flush with large quantities of water. Remove

contaminated clothing under a safety shower. Continue rinsing. Obtain

medical attention if irritation occurs.

EYE CONTACT: Immediately flush with large quantities of water for 15 minutes. Hold

eyelids apart during irritation to ensure thorough flushing of the entire area of the eye and lids. Obtain medical attention if irritation occurs.

Product name: Mor-Bor 17 Issue Date: 03-26-2018 Page 2 of 10

INHALATION: Remove victim from contaminated atmosphere. If breathing is labored,

administer Oxygen. If breathing has ceased, clear airway and start CPR.

Obtain medical attention.

INGESTION (SWALLOWING): If victim is conscious, give 2 to 4 glasses of water. Never administer

fluids to, or initiate vomiting on an unconscious person. Obtain medical

attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING AGENTS:

CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

UNSUITABLE EXTINGUISING MEDIA:

None known.

SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE

PHYSICAL HAZARDS:

Closed containers exposed to extreme heat can rupture due to expanding gases and building pressure.

CHEMICAL HAZARDS:

This product is not flammable, combustible or explosive.

ADVICE FOR FIREFIGHTERS

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear. Keep containers/storage vessels in fire area cooled with water spray.

6. ACCIDENTAL RELEASE MEASURES

SPILLS OR RELEASES

PERSONAL PRECAUTIONS: Use personal protective equipment specified in Section 8.

Isolate the hazard area and deny entry to unnecessary,

untrained and unprotected personnel.

ENVIRONMENTAL PRECAUTIONS: Keep out of "waters of the United States" because of potential

aquatic toxicity (See Section 12)

METHODS OF CONTAINMENT:

SMALL RELEASE: Confine and absorb small releases with sand, earth or other

inert absorbent.

Product name: Mor-Bor 17 Issue Date: 03-26-2018 Page 3 of 10

LARGE RELEASE: Stop release if safe to do so. Dike spill area with earth, sand or

other inert absorbent to prevent runoff into surface waterways

(potential aquatic toxicity), storm drains or sewers.

METHODS OF CLEANUP:

SMALL RELEASE: Shovel up the absorbed material and place in drums for disposal

as a chemical waste or recycle as a fertilizer as the original

product was intended.

LARGE RELEASE: Recover as much of the spilled product as possible using

portable pump and hoses. Use recovered material as originally intended or dispose of as a chemical waste. Treat remaining

material as a small release (above).

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes. Use only in a well-ventilated area. Wash thoroughly

after handling. Avoid prolonged or repeated contact with the skin.

STORAGE: Store in well-ventilated areas. Do not store combustibles in the area of storage

vessels. Keep away from any sources of heat or flame. Store totes and smaller

containers out of direct sunlight at moderate temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENTS WITH OCUPATIONAL EXPOSURE LIMITS:

Boric acid (10043-35-3)

ACGIH- 8hr TWA (inhalable fraction): 2mg/m3 ACGIH- 15min STEL (inhalable fraction): 6mg/m3

OSHA PEL (total dust): 15mg/m3 OSHA PEL (respirable dust): 5mg/m3

EXPOSURE CONTROLS

Use adequate exhaust ventilation to prevent inhalation of product vapors. Keep eye wash/safety shower in areas where product is commonly handled.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Product name: Mor-Bor 17 Issue Date: 03-26-2018 Page 4 of 10

EYE/FACE PROTECTION: Chemical goggles and a full face shield.

SKIN PROTECTION: Neoprene rubber gloves and apron should be worn to prevent

repeated or prolonged contact with the liquid. Wash

contaminated clothing prior to reuse.

RESPIRATORY PROTECTION: None generally required. If conditions exist where mist may be

generated, a NIOSH/MSHA approved mist respirator should be

worn.

HYGIENE CONSIDERATION: Keep away from foodstuffs, beverages, and feed, immediately

remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work, avoid contact with the

eyes and skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

PHYSICAL STATE: Solid
COLOR: Clear
ODOR: Odorless
ODOR THRESHOLD: Not available.

pH: 5.1

MELTING POINT/FREEZING POINT:

INITIAL BOILING POINT/BOILING RANGE:

FLASH POINT:

Not available.

Not available.

EVAPORATION RATE: (Ether=1): Not available.

FLAMMABILITY (SOLID,GAS): Not available.

UPPER/LOWER FLAMMABILITY OR

EXPLOSIVE LIMITS:

FLAMMIBILITY LIMIT-LOWER (%)
FLAMMIBILITY LIMIT-UPPER (%)
EXPLOSIVE LIMIT-LOWER (%)
EXPLOSIVE LIMIT-UPPER (%)

VAPOR PRESSURE:

VAPOR DENSITY:

RELATIVE DENSITY:

Not available.

Not available.

1.49 lbs/gal

SOLUBILITY(IES):

SOLUBILITY IN WATER: Not available.

PARTITION COEFFICIENT (N-OCTANO/WATER: Not available.

AUTO-IGNITION TEMPERATURE: Not available.

Product name: Mor-Bor 17 Issue Date: 03-26-2018 Page 5 of 10

DECOMPOSITION TEMPERATURE:Not available.THERMAL DECOMPOSITION:Not available.VISCOSITY:Not available.

SOLVENT CONTENTS:

ORGANIC SOLVENTS:

VOC CONTENT:

Not available.

Not available.

Not available.

OTHER INFORMATION:

DISPERSION PROPERTIES: See solubility in water.

WATER/OIL DIST. COEFF:

%VOLATILE (BY WT.):

VOLATILITY

Not available.

Not available.

Not available.

Not available.

10. STABILITY AND REACTIVITY

REACTIVITY: No further relevant information available.

CHEMICAL STABILITY: This is a stable product under normal (ambient)

temperature and pressure.

POSSIBILITY OF HAZARDOUS REACTIONS:Boric acid is a weak acid that may cause corrosion of

base metals. Reaction with strong reducing agents such

as metal hydrides or alkali metals will generate

hydrogen gas which could create and explosive hazard.

CONDITIONS TO AVOID: High heat or fire conditions. Do not allow to evaporate

to dryness.

INCOMPATIBILITY (Material to Avoid): Avoid contact with combustible, organic, or other

readily oxidizable materials. Avoid contact with strong

reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Material will not burn, but when heated and water is

lost metaboric acid is formed which with further heating

may form boric oxide.

11. TOXILOGICAL INFORMATION

INFORMATION ON THE TOXICOLOGICAL EFFECTS

Product name: Mor-Bor 17 Issue Date: 03-26-2018 Page 6 of 10

ACUTE TOXICITY:

Boric acid (10043-35-3)

LD50 Oral: 3,450- 4,080mg/kg (rat) LD50 Dermal: >2,000mg/kg (rabbit) LD50 Inhalation: >2.0mg/L (rat)

IF IHNALED:No data available.IF IN EYES:No data available.IF ON SKIN:No data available.IF SWALLOWED:No data available.

CARCINOGENICITY: Not listed in NTP, IRAC or by OSHA

TERATOLOGY: No data available.

REPRODUCTION: Suspected of damaging fertility or the unborn child. NOAEL in

Rats for developmental effects on the fetus including fetal weight loss and minor skeletal variations is 55mg boric acid/ kg

or 9.6mg B/kg.

MUTAGENICITY: No data available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Boric acid (10043-35-3)

LC50: 10mg B/L (Chlorella pyrenoidosa)

LC50: 28mg B/L (Selenastrum capricornutum)

LC50: 1,376mg B/L (Chironomus decorus)

LC50: 627mg B/L (Onchorhynchus tschawytscha)

LC50: 104mg B/L (Bufo fowleri)

AQUATIC TOXICITY: Avoid release into any water systems including sewers. Runoff

from fire control or dilution water may cause pollution.

PERSISTENCE & DEGRADIBILITY: No data available.

BIOACCUMULATIVE POTENTIAL: This product is not bioaccumulative.

MOBILITY IN SOIL: This product is soluble in water and is leachable through normal

soil. Adsorption to soils or sediments is insignificant.

OTHER ADVERSE EFFECTS: No data available.

GENERAL NOTES: Do not allow undiluted or large quantities to reach ground

water, water courses, or sewage systems.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local regulations for disposal requirements.

Product name: Mor-Bor 17 Issue Date: 03-26-2018 Page 7 of 10

14. TRANSPORT INFORMATION

BASIC SHIPPING DESCRIPTION:

PROPER SHIPPING NAME: Mor-Bor 17.

HAZARD CLASSES: Not available.

IDENTIFICATION NUMBER: Not available.

PACKING GROUP: Not available.

HAZARDOUS SUBSTANCE: No MARINE POLLUTANT: No

ADDITIONAL INFORMATION:

Other DOT Requirements:

REPORTABLE QUANTITY: Not available.

PLACARD(S): Not available.

LABEL(S): Not available.

USCG Classification: Class 43, Misc. water solutions, Chris Code: PTF

INTERNATIONAL TRANSPORTATION:

IMO: Not regulated
IATA: Not regulated
TDG (Canada): Not regulated
ADR (Europe): Not regulated
ADG (Australia): Not regulated

EMERGENCY RESPONSE GUIDE: Not applicable **ERAP – CANADA:** Not applicable

Special Precaution: None

15. REGULATORY INFORMATION

SAFTEY, HEALTH, AND ENVIRONMENTAL REGULATION/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

Water (7732-18-5)

PROPOSITION 65:

Chemicals known to cause cancer:

None of the ingredients are listed.

Product name: Mor-Bor 17 Issue Date: 03-26-2018 Page 8 of 10

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

CARCINOGENIC CATEGORIES:

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

Corrosive to eyes.

GHS label elements:

This product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms:



GHS08

Signal word: Warning

Hazard statements:

Suspected of damaging fertility or the unborn child.

Precautionary statements:

Refer to sections 2 and 4.

National regulations:

This product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

State Right to Know:

None of the ingredients are listed.

Chemical safety assessment:

A chemical safety assessment has not been carried out

16. OTHER INFORMATION/PREPARATION DATE

NOTICE TO READER:

Product name: Mor-Bor 17 Issue Date: 03-26-2018 Page 9 of 10

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Product name: Mor-Bor 17 Issue Date: 03-26-2018 Page 10 of 10