

TRIATHLON® BA

EPA Registration Number: 70051-107-59807

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name TRIATHLON® BA
Product type Liquid Concentrate
Active Ingredient *Bacillus amyloliquefaciens* strain D747
EPA Registration No. 70051-107-59807

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Bio-Fungicide
Uses advised against Any use not listed on the label

Details of the supplier of the safety data sheet

Company information OHP, Inc.
 PO Box 51230
 Mainland, PA 19451
 (800) 659-6745

Emergency telephone number

TRANSPORTATION EMERGENCY
(24 hours a day) call Chemtrec: 1-800-424-9300

MEDICAL EMERGENCY (24 hours a day) and Product Information call 1-800-356-4647

SDS Information

or Request ohp.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Hazard Classification Not classified as hazardous by OSHA

EPA Signal Word Caution see section 15

Hazard Statements None

Pictogram None

Precautionary Statements : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco and using the toilet.

Other Hazards For Terrestrial Uses:
 Do not apply directly to water or to areas where surface water is present, or to intertidal areas below mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not apply when weather conditions favor drift or runoff from treated areas.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances		
Ingredient	Percentage	CAS#
<i>Bacillus amyloliquefaciens</i> strain D747	98.85	68038-60-8

4. FIRST AID MEASURES

Description of first aid measures

Generic measures

Eye Contact Immediately flush with water holding eye open for 15-20 minutes. Remove contact lenses after 5 minutes if present and continue rinsing eye. Seek medical attention if irritation persists.

Skin Contact Remove contaminated clothing and wash affected area with plenty of soap and water. If irritation persists call poison control or doctor for treatment advice

Inhalation Remove individual to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call poison control center or doctor for further advice.

Have the product label with you when calling a poison control center or doctor.

Most important symptoms and effects, both acute and delayed

May cause an allergic reaction in some individuals

Indication of any immediate medical attention and special treatment needed

Note to Physicians The active ingredient contained in this product has a high affinity for activated charcoal. In case of ingestion of large amounts, administer 5 mg/kg activated charcoal suspension (50g/400mL water).

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable Extinguishing

Media All extinguishing media

Unsuitable Extinguishing

Media None known

Special hazards arising from the substance or mixture

Hazardous combustion

products None known

Advice for firefighters

Protection of Firefighters . : None specified

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel: Use personal protections as indicated in Section 8.

For emergency

responders: Use personal protection recommended in Section 8.

Environmental precautions

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local and national health and environmental regulations.

Methods and material for containment and cleaning up

Methods for

Containment: Recover free product.
Use absorbent material to minimize runoff of product or mixed product.

Methods for Clean-Up: Sweep up and place in a chemical container. Seal the container and handle in an approved manner. Do not allow wash water to contaminate water supplies. Dispose of in accordance with Federal State and local regulations for disposal of non-hazardous waste.

Other Information: None

Reference to other sections

See Section 8 for occupational exposure limits and risk management measures. Refer to Section 13 for disposal considerations.

7. HANDLING AND STORAGE

Precautions for safe handling:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticides got inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Conditions for safe storage, including any incompatibilities

Store pesticide in a cool dry area that is inaccessible to children. Store in original containers only. Keep container closed when not in use.

Specific end use(s)

Wastes resulting from the use of this product maybe be disposed of on site or at an approved waste disposal facility.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OSHA Permissible Exposure

Limits (PELs): Not determined

ACGIH Threshold

Limit Values: Not determined

Other Exposure Limits . . .: Not determined

Exposure controls

Engineering Controls: Use in well ventilated area

Personal Protective Equipment

Eye/Face Protection: None specified

Skin Protection: Long sleeved shirt and long pants

Hand Protection: Waterproof gloves

Body Protection: Shoes plus socks

Respiratory Protection . . .: Mixer loaders and applicators must wear a dust/mist respirator meeting NIOSH standards of at least N-95, R- 95, or P-95.

Thermal Hazards: None

General Hygiene

Considerations: Repeated exposure to high concentrates of microbial proteins can cause allergic sensitization.

Wash clothing and PPE using manufacturer's instructions immediately after use and before reuse.

Environmental exposure

controls: Do not apply directly to water or to areas where surface water is present or intertidal areas below high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Do not apply when weather conditions favor drift or run off from treated areas.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Tan liquid
Odour Yeast like
Odour Threshold Not determined
pH 4.0-5.0
Melting Point / Freezing Point 32° F (0° C)
Initial Boiling Point 212° F (100°C)
Boiling Range Not available
Flash Point Not available
Evaporation Rate Not available
Flammability (solid, gas) Not available
Lower & Upper Flammability Limits Not available
Vapour Pressure Not available
Vapour Density Not available
Density 8.5-8.6 lb./gallon
Solubility Not available
Partition Coefficient (n-octanol/water) Not available
Auto-ignition Temperature Not available
Decomposition Temperature Not available
Viscosity 4.0-16 cP
Explosive Properties None known
Oxidising Properties None known
Other information
 Not available.

10. STABILITY AND REACTIVITY

Reactivity Stable
Chemical stability Stable
Possibility of hazardous reactions None known
Conditions to avoid None known
Incompatible materials None known
Hazardous decomposition products None Known

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

Toxicological information on the substance or mixture:

LD₅₀ (oral) LD₅₀ > 5000 mg/kg body weight rat, test results based on similar product containing the same active ingredient.
LD₅₀ (dermal) LD₅₀ > 5050 mg/kg body weight rat, test results based on similar product containing the same active ingredient.
LC₅₀ (inhalation) LC₅₀ > 2.18 mg/L, test results based on similar product containing the same active ingredient

Skin corrosion / irritation ... Non-irritating, Toxicity Category IV

Eye irritation No positive effects exhibited in any eyes after treatment.
 Practically non-irritating, Toxicity Category IV

Respiratory or skin sensitization No data available.

Other information on adverse health effects:

Carcinogenicity

NTP Listed Not applicable.

IARC Listed Not applicable.

OSHA Not applicable.

Reference to other sections

See Section 4 for symptoms and acute and delayed effects.

12. ECOLOGICAL INFORMATION

Toxicity

Test species	Test method	Test substance	LC ₅₀
Northern Bobwhite	Acute oral toxicity	<i>B. amyloliquefaciens</i> strain D747	LD ₅₀ > 2250 mg/kg body weight
<i>Oncorhynchus mykiss</i>	30 days	<i>B. amyloliquefaciens</i> strain D747	LC ₅₀ > 8.1 x 10 ¹⁰ CFU/L
<i>Daphnia magna</i>	21 days	<i>B. amyloliquefaciens</i> strain D747	EC ₅₀ > 2.3 x 10 ¹⁰ CFU/L
<i>Apis mellifera</i>	48 hour	<i>B. amyloliquefaciens</i> strain D747	LC ₅₀ > 1.0 x 10 ⁹ CFU/mL

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Persistence and degradability

..... : The active substance
B. amyloliquefaciens D747 populations spreading to
the environment during or after field application will
rapidly decline to naturally occurring background
levels.

Bioaccumulative potential

..... : The active substance
B. amyloliquefaciens D747 does not multiply and ac-
cumulate in animals and humans.

Mobility in soil : The active substance
B. amyloliquefaciens D747 spores readily adsorb to
the clay fractions in soils and show no evidence of
leaching. Therefore the risk of ground water contami-
nation is considered negligible.

Other adverse effects : No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Instructions

Do not contaminate water, food, or feed by storage and
disposal.

Pesticide Storage : Store in a dry area inac-
cessible to children. Store in original containers only.
Keep container closed when not in use.

Pesticide Disposal : Wastes resulting from the
use of this product may be disposed of onsite or at an
approved waste disposal facility.

Container Handling : Non-refillable container.
Do not reuse or refill this container.

- For containers equal to or less than 5 gallons

Triple rinse container (or equivalent) promptly af-
ter emptying. Triple rinse as follows: Empty the
remaining contents into application equipment or
a mix tank and drain for 10 seconds after the flow
begins to drip. Fill the contain ¼ full with water and
recap. Shake for 10 seconds. Pour rinsate into ap-
plication equipment or a mix tank or store rinsate
for later use or disposal. Drain for 10 seconds after
the flow begins to drip. Repeat this procedure two
more times. Then offer for recycling, if available or
puncture and dispose of in a sanitary landfill, or by
incineration, or if allowed by state and local author-
ities, by burning. If burned, stay out of smoke.

- For containers greater than 5 gallons

Triple rinse as follows: Empty the remaining con-
tents into application equipment or a mix tank. Fill
the container ¼ full with water. Replace and tight-
en closures. Tip container on its side and roll it
back and forth, ensuring at least one complete rev-
olution, for 30 seconds. Stand the container on its
end and tip it back and forth several times. Turn
the container over onto its other end and tip it back
and forth several times. Empty the rinsate into ap-
plication equipment or a mix tank or store rinsate
for later use or disposal. Repeat this procedure two
more times.

14. TRANSPORTATION INFORMATION

UN number : Not regulated.

UN proper shipping name .. : Not regulated.

Transport hazard class(es) : Not regulated.

Packaging group : Not regulated.

Environmental hazards : Not regulated.

Special precautions

for user : Not regulated.

**Transport in bulk according
to Annex II of MARPOL73/78
and the IBC Code** : Not regulated.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legisla- tion specific for the substance or mixture

EPA : This product is a pesticide
product registered by the United States Environmen-
tal Protection Agency and is subject to certain label-
ing requirements under federal pesticide law. These
requirements differ from the classification criteria and
hazard information required for safety data sheets
(SDS), and for workplace labels of non-pesticidal
chemicals. The hazard information required on the
pesticide label is reproduced below. The pesticide
label also includes other important information, in-
cluding directions for use.

CAUTION, KEEP OUT OF REACH OF CHILDREN

Prolonged or frequently repeated skin contact may
cause allergic reactions in some individual.

Repeated exposure to high concentrations of micro-
bial proteins can cause allergic sensitization.

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To the best of our knowledge, the information contained herein is accurate. However, neither OHP, Inc. nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

SDS Information:**Revision date**: March 23, 2015**Reason for Revision**: OSHA Hazard Communication Standard 2012

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