# **Safety Data Sheet**



Preparation Date 30-May-2023 Revision date 30-May-2023 Revision Number: 1

# 1. Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the product

Product Description BACIX

Other means of identification

Internal SDS code BLAS-20230530 Registration number(s) 93505-1-70506

Recommended use of the chemical and restrictions on use

**Recommended use** Fungicide. Agricultural applications.

Uses advised against

Non labeled activities

**Details of the Supplier of the Safety Data Sheet** 

**Supplier Address** 

UPL NA Inc.

630 Freedom Business Center

Suite 402

King of Prussia, PA 19406

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison and Drug Safety (866) 673-6671 (24hrs)

### 2. Hazards Identification

# Classification

### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

### **EMERGENCY OVERVIEW**

The product contains no substances which at their given concentration, are considered to be hazardous to health under the OSHA 2012 HazCom

Appearance powder Physical state solid Odor Characteristic

# Hazards Not Otherwise Classified (HNOC)

- OTHER INFORMATION
- Contains Bacillus subtillis. May produce an allergic reaction.
- To protect aquatic organisms/non-target plants/non-target arthropods/insects respect an untreated buffer zone of 5 meters from

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water points for all uses in the open field and under open shelter at time of treatment.

# 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Bacillus subtilis (strain IAB/BS03)	NOT APPLICABLE	2

The product contains no substances which at their given concentration, are considered to be hazardous to health under the OSHA 2012 HazCom

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

2% (min 2 X 108 CFU/g\* \* CFU: colony forming units.

# 4. First aid measures

### **FIRST AID MEASURES**

Eye contact Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact

lenses, if present, after 5 minutes, then continue rinsing eye. If symptoms persist, call a

physician.

**Skin contact** Rinse skin immediately with plenty of water for 15-20 minutes. If skin irritation persists, call

a physician.

**Inhalation** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison

control center immediately.

**Ingestion** Call a physician or poison control center immediately. Never give anything by mouth to an

unconscious person. Do not induce vomiting without medical advice.

### Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and

**Effects** 

no data available.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician No information available. Treat symptomatically.

# 5. Fire-fighting measures

### Suitable extinguishing media

Product is not flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use employ polyvalent powder extinguisher (ABC powder).

Unsuitable extinguishing media no data available.

### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### **Explosion data**

### Protective equipment and precautions for firefighters

Use personal protective equipment. 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 Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** 

**Environmental precautions**Consult a regulatory specialist to determine appropriate state or local reporting

requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained. Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

**Methods for Clean-Up** Sweep up and shovel into suitable containers for disposal.

# 7. Handling and Storage

Precautions for safe handling

**Handling** Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Conditions for safe storage, including any incompatibilities

Storage Store in an area where cross-contamination with pesticides, fertilizers, food or feed could

not occur. Store in a dry place and/or in closed container. Keep containers tightly closed in

a cool, well-ventilated place. Keep at temperatures below 30 °C.

incompatible materials Strong acids.

### 8. Exposure Controls/Personal Protection

**Exposure guidelines**This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Engineering controls Investigate engineering techniques to reduce exposures. Local mechanical exhaust

ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design

of exhaust systems.

Personal protective equipment

Eye/Face Protection Skin protection

Avoid contact with eyes. Safety glasses with side-shields. Goggles.

Long sleeved clothing. Long pants. Chemical resistant gloves. waterproof gloves. Socks

and footwear.

**Respiratory protection** Where airborne exposure is likely, use NIOSH approved respiratory protection equipment

appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134. Suitable mask with particle filter P3

(European Norm 143).

**General hygiene considerations** 

Avoid contact with skin, eyes and clothing.

# 9. Physical and Chemical Properties

# 9.1 Information on basic physical and chemical properties

#### **BLAS-20230530 BACIX**

AppearancepowderPhysical statesolid

**Odor** Characteristic

**color** white

<u>Property</u> <u>VALUES</u> <u>Remarks/ Method</u>

pH 6 Approximately
Melting point/freezing point None known

Boiling Point/Range

No information available

None known
No ne known

Evaporation Rate
None known
Flammability (solid, gas)
None known
Specific gravity
None known
Bulk density
None known
Water solubility
None known
Solubility in Other Solvents
No information available
None known
Partition coefficient: n-octanol/water
None known
None known

Autoignition temperatureNone knownDecomposition temperatureNone knownViscosityNone known

### 9.2 OTHER INFORMATION- NONE

# 10. Stability and Reactivity

#### Reactivity

no data available

#### Chemical stability

Stable under recommended storage conditions.

# Possibility of hazardous reactions

None under normal processing.

### **Conditions to avoid**

None under normal processing.

### incompatible materials

Strong acids.

# **Hazardous decomposition products**

None under normal use conditions. Thermal decomposition can lead to release of irritating gases and vapours. Carbon oxides. Organic materials.

# 11. Toxicological Information

# Information on Likely Routes of Exposure

Product information BACIX

Acute oral LD50 (rat) >5,000 mg/kg Acute dermal LD50 (rat) >2,000 mg/kg Acute inhalation LC50 (rat) Data not available

Eye and skin - Non -irritant Sensitization Not a sensitizer

**Inhalation** Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

**Skin contact** Based on available data, the classification criteria are not met.

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Based on available data, the classification criteria are not met.

Information on Toxicological Effects

Ingestion

**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 data available.

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration hazard
Not Available.
no data available.
No information available.

Numerical Measures of Toxicity - See above

# 12. Ecological Information

### ecotoxicity

**BACIX** 

Acute oral LD50 (Japanese quail) >5,000 mg/kg Acute toxicity LC50 (Common carp) >100 mg/l Acute toxicity LC50 (Daphnia magna >100 mg/l

Acute reproduction toxicity (Daphnia magna EC50 (21 days) 7.85 mg/l

### Persistence/Degradability

Biodegradable.

### **Bioaccumulation/ Accumulation**

Does not bioaccumulate. This product does not meet the criteria for persistent, bio-accumulative and toxic (PBT) / very persistent and very bio-accumulative (VpVb) substances.

### **Other Adverse Effects**

no data available

# 13. Disposal Considerations

**Waste Treatment Methods** 

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated packaging Refer to product label.

# 14. Transport Information

DOT

**NOT REGULATED** 

**TDG** 

**NOT REGULATED** 

\_\_\_\_\_

<u>IATA</u>

NOT REGULATED

**IMDG** 

**NOT REGULATED** 

# 15. Regulatory Information

International Inventories

USINV Not present
DSL/NDSL Not present
EINECS/ Not Present

**ELINCS** 

ENCS Not Present
China Not Present
KECL Not Present
PICCS Not Present
AICS Not Present
TSCA Not Present
Not Present

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

DSL/NDSL - 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

# 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.

# CERCLA

Not applicable

**CERCLA** 

SARA Product RQ 0

RCRA

**Pesticide Information** 

**State Regulations** 

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

International regulations
U.S. EPA Label information

EPA Pesticide registration number 93505-1-70506

# 16. Other Information

NFPA HEALTH 1 flammability 0 Instability 0 Physical hazard -

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Add to system **Disclaimer** 

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**End of SDS**