

Safety Data Sheet

Date of issue: 13/01/2020 Version: 1.0

M:\~ Client Work\NexusBioAg\NA065 - Website-App Enhancements and Support - Crop 2021\SDSSECTION 1 : Identification

1.1. Identification

Product form : Mixture

Trade name : BioniQ wettable powder nutrient solubilizing inoculant for canola, all wheat, oats, mustard,

barley, and rye - Active powder A

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

Use of the substance/mixture : Penicillium Inoculant

1.3. Details of the supplier of the safety data sheet

Novozymes BioAg 3935 Thatcher Ave

Saskatoon, SK Canada S7R 1A3 Information Telephone Number

: 1-888-744-5662

Available 24 hours a day 7 days a week from April 1st to June 15th, otherwise available from 8:00am

to 4:30pm CST, Monday to Friday.

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (Chemtrec) 24 hours every day

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Comb. Dust May form combustible dust concentrations in air

2.2. Label elements

GHS-US labelling

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : May form combustible dust concentrations in air

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Components

 Penicillium bilaiae
 : 7-36%

 Sucrose (CAS 57-50-1)
 : 2-11%

The specific chemical identity and/or concentration range is being withheld because it is trade secret information of Novozymes BioAg.

This mixture does not contain any substances to be mentioned according to the criteria of Appendix D to Regulations 29 CFR 1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Encourage coughing. In all cases of doubt, or when symptoms persist, seek medical advice.

Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Obtain medical attention if pain, blinking or redness persists. Rinse immediately with plenty of water.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Give water to drink if victim completely conscious/alert. Seek medical attention if ill effect or irritation develops. Do NOT induce vomiting. Obtain emergency medical attention.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: This product contains beneficial microorganisms. Novozymes exclusively uses non-pathogenic beneficial microorganisms that are considered to be non-allergenic, non-irritating and nonsensitizing when used as directed. This product may cause adverse effects to individuals allergic to molds and/or fungi and should not be used by immunocompromised and/or immunosuppressed individuals. Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation

Possible respiratory damage following repeated or prolonged inhalation.

Symptoms/injuries after eye contact

: May cause eye irritation.

Symptoms/injuries after ingestion

Small amounts swallowed incidental to industrial handling are not likely to cause injury. On ingestion in large quantities: May cause stomach pain or discomfort.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire. Foam, Dry powder, Carbon dioxide.

Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity

: Thermal decomposition generates : Carbon monoxide. Carbon dioxide. hydrocarbons. Fumes.

Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protective equipment for firefighters

: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Emergency procedures

: Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up

On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Collect all waste in suitable and labelled containers and dispose according to local legislation.

Reference to other sections

No additional information available

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling

: Provide adequate ventilation. Avoid dust formation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures

Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practices.

Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep away from food, drink and animal feeding stuffs. Keep only in the original container in a cool, well ventilated place away from: Direct sunlight, Heat sources, Extremely high or low temperatures. Keep container closed when not in use.

Incompatible materials

Acids. Bases. oxidizing agents. Reducing agents. Disinfectants, fungicides, and/or biocides

may inactivate.

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Storage temperature : < 20 °C (68°F)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Sucrose (57-50-1) | | |
|-------------------|------------------------|---|
| ACGIH | ACGIH TWA (mg/m³) | 10 mg/m³ |
| OSHA | OSHA PEL (TWA) (mg/m³) | 15 mg/m³ (total dust) 5 mg/m³ (respirable fraction) |

8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure.

Personal protective equipment : Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory

protection. Avoid all unnecessary exposure.









Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, approved respiratory protection

equipment is recommended.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Light green powder
Colour : Light green
Odour : Slight odour
Odour threshold : No data available

pH : 7.1

Not applicable Melting point Freezing point : Not applicable Boiling point : Not applicable Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : Not applicable Flammability (solid, gas) No data available **Explosive limits** : Not applicable Explosive properties No data available Oxidising properties : No data available : Not applicable Vapour pressure : No data available Relative density Relative vapour density at 20 °C : Not applicable

Solubility : Water: Suspends in water

Log Pow : No data available
Auto-ignition temperature : Not applicable
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : Not applicable

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Heat sources. Incompatible materials. Extremely high or low temperatures.

10.5. Incompatible materials

Acids. Bases. oxidizing agents. Reducing agents. Disinfectants, fungicides, and/or biocides may inactivate.

10.6. Hazardous decomposition products

Thermal decomposition generates: hydrocarbons. Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

(Based on available data, the classification criteria are not met)

Skin corrosion/irritation : Not classified

(Based on available data, the classification criteria are not met)

pH: 7.1

Serious eye damage/irritation : Not classified

(Based on available data, the classification criteria are not met)

pH: 7.1

Respiratory or skin sensitisation : Not classified

(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified

(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified

(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified

(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : Not classified

(Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated

exposure)

: Not classified

(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified

(Based on available data, the classification criteria are not met)

Symptoms/injuries after inhalation : Possible respiratory damage following repeated or prolonged inhalation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : Small amounts swallowed incidental to industrial handling are not likely to cause injury. On

ingestion in large quantities: May cause stomach pain or discomfort.

SECTION 12 : Ecological information

12.1. Toxicity

No additional information available

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12.2. Persistence and degradability

Persistence and degradability Not established

12.3. Bioaccumulative potential

Bioaccumulative potential Not established

12.4. Mobility in soil

Other information

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Burn in an approved

: Avoid release to the environment.

incinerator or dispose of in approved chemical landfill in accordance with all applicable local,

state and federal laws and regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

National regulations

This material is considered hazardous according to the criteria of the US OSHA Hazard Communication Standard (29 CFR 1910.1200).

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

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SECTION 16: Other information

Abbreviations and acronyms

: ACGIH (American Conference of Government Industrial Hygienists). CAS - Chemical Abstracts
Service. GHS - Globally Harmonised System. HCS - Hazard Communication Standard. OSHA Occupational Safety and Health Administration. PEL- Permissible Exposure Level. STEL-

Short-Term Exposure Limit. TWA- Time Weighted Average.

Other information : None

Full text of H-statements:

| Comb. Dust | Combustible Dust |
|------------|---|
| H232 | May form combustible dust concentrations in air |

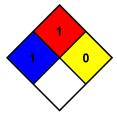
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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