



Rethink Tomorrow

13100 W. Lisbon Road Suite 600, Brookfield, WI. 53005 USA

Material Safety Data Sheet

1. Product identification

Product use: *Penicillium* Inoculant

MSDS number: NZBWI-101

Effective date: August 1, 2011

JumpStart® wettable powder

2. Composition:

Component	CAS number	% (w/w)
Pure culture of <i>Penicillium bilaii</i> fungus	Not available	3 - 23
Other ingredients:	Not available	77 - 97

Note: This product contains beneficial microorganisms. Novozymes exclusively uses non-pathogenic beneficial microorganisms that are considered to be non-allergenic, non-irritating and non-sensitizing when used as directed. Exposure to very high levels of airborne microbial spores may result in very rare respiratory impairments or cause an allergic reaction in sensitized individuals. A Material Safety Data Sheet is supplied with all products.

Emergency overview:

Individuals allergic to molds and/or fungi should avoid using this product. If use by allergic individuals is unavoidable, absorption by eye or skin contact, inhalation or ingestion must be prevented to minimize the chance of allergic reaction.

3. Hazard identification:

NFPA: Health – 1, Flammability – 1, Reactivity – 0

Potential health effects:

Eyes: Contact may cause eye irritation.

Skin contact: Low hazard for usual handling.

Skin absorption: A single prolonged exposure is not likely to result in this material being absorbed in harmful amounts. Do not expose open cuts or wounds to this product.

Ingestion: Small amounts swallowed incidental to industrial handling are not likely to cause injury. Ingestion of larger amounts may cause stomach discomfort or pain.

Inhalation: Prolonged or repeated exposure may cause injury to the respiratory tract.

Chronic effects: Not a likely hazard

Cancer: Not a likely hazard

Birth defects: Not available

Reproductive effects: Not available

Mutagenic effects: Not available

4. First aid measures:

Eyes: Flush with a continuous gentle stream of water for 5 minutes. If irritation develops, get medical attention.

Skin: Wash with plenty of soap and water.

Ingestion: Do not induce vomiting unless instructed to do so by qualified medical personnel. If individual is conscious, give them plenty of water to drink. Get medical attention if stomach discomfort develops.

Inhalation: Move individual to fresh air. Encourage coughing. Get medical attention if breathing difficulty develops.

Note to physician: Employ supportive care. Treatment should be based on the judgment of the physician in response to reactions of the patient.

5. Fire-fighting measures:

Flash point: Not applicable

Explosive limits: Not applicable

Auto-ignition temperature: Not applicable

Extinguishing media: Use extinguishing media appropriate for controlling the surrounding fire.

Sensitivity to mechanical impact/static discharge: Not available

Unusual fire and explosion hazards: None known

Fire-fighting equipment: Wear positive-pressure self-contained breathing apparatus and full turn-out gear.

6. Accidental release measures:

Sweep up the spill and store in a suitable container until proper disposal can be arranged.

7. Handling and storage:

Store any unused product in original unopened containers at temperatures below 20°C (68°F) away from sunlight, drafts, and direct heat sources. Practice reasonable caution to avoid contact with this product. Avoid breathing dusts and mists if generated. Users should wash hands before eating, drinking, chewing gum, using tobacco or the toilet. Keep out of reach of children. Do not ship or store this product with food, feed, drugs or clothing.

In Case of Emergency Call: 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.

8. Exposure controls, personal protection and exposure limits:

Penicillium bilaii: Not available

Engineering controls: Good ventilation is required. Avoid generating aerosols during handling.

Breathing: Use an approved air-purifying respirator if respiratory irritation is experienced.

Protective clothing: Wear clean body-covering clothing and impervious gloves when handling this product.

Eyes: Use safety glasses

Other protection: None specified

9. Physical and chemical properties:

Boiling point: Not applicable

Vapour pressure: Not applicable

Volatility: Not applicable

pH: 7.1

Appearance: Light green powder

Odour: Slight

Coefficient of water/oil distribution: Not available

Evaporation rate: Not applicable

Solubility in water: Suspends in water

Freezing point: Not applicable

Odour threshold: Not available

Melting point: Not applicable

Physical state: Solid

Vapor density: Not applicable

Specific gravity: Not available

10. Stability and Reactivity:

Incompatibility: Acids, bases, oxidizers, reducers, disinfectants, fungicides, and/or biocides may inactivate.

Hazardous decomposition products: Thermal decomposition releases CO, CO₂, hydrocarbons.

Hazardous polymerization: Does not occur

11. Toxicological information:

Skin absorption: Not available

Ingestion: Oral LD₅₀ is not available

Inhalation: Inhalation LC₅₀ is not available

12. Ecological information:

Toxicity to bees: Not available. Not a likely hazard

Toxicity to fish: Not available. Not a likely hazard

Toxicity to birds: Not available. Not a likely hazard

13. Disposal considerations:

This product may be disposed of by placement in any landfill approved for domestic waste.

14. Transportation information:

This product is not regulated as a hazardous material for all modes of transportation within the U.S. and Canada.

Hazard class: Not applicable

15. Regulatory information:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

Proposition 65: Contains no components subject to warning requirements.

Master reference: On file

MSDS status: New MSDS

16. Other Information:

Prepared by: M. Sonier

This information may not be adequate for every application and therefore it is up to the user to determine the suitability of this information based on conditions of use, storage or local regulations.

Notice: The information contained in this Material Safety Data Sheet is presented in good faith and is believed to be accurate as of the effective date shown above. However, no other warranty, expressed, or implied, is given. Laws, regulations, and/or third party rights may prevent customers from importing, using, processing and/or reselling the products described herein in a given manner. Without separate written agreement between the customer and Novozymes to such effect this document does not constitute a representation or warranty of any kind and is subject to change without further notice.

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