

MILDOWN Revision Date: 01-06-2020

SAFETY DATA SHEET

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

Product Identifier

Product Name: MILDOWN

Other means of identification

Common Name: Mildown

Microorganism: *Bacillus subtilis* 2% A.S.

Colour Index Generic Name: NA
Colour Index No: NA
C. A. S. No: NA

Product Categories: Bio-fungicide

Recommended use of the product and restrictions on use

Sale and Use Restrictions: Not Applicable

Recommended Use: Agricultural professionals

Uses advised against: Consumer use

Details of supplier of the safety data sheet

Supplier Address

IPL Biologicals Limited

M2K Corporate Park, Sector 51, Gurugram, Haryana – 122003, India

Telephone: +91-124-4525001-4525099

2. HAZARDS IDENTIFICATION

Non hazardous

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is an agriculture Product, Bio-fungicide which contain microbes, i.e., non-explosive and non-hazardous. It contains Bacterial cell mass and fermentation solids in water based formulation.

S.no	Components	Percentage composition (%w/w)
01	Bacillus subtilis (Active Ingredients)	1-2 %
	Population density (CFU 2 X 10 ⁸ /ml)	
2	Starch	1%
3	Glycerol	1%
4	Distilled Water (carrier)	Q.S.
	Total	100 %

4. FIRST AID MEASURES

First aid measures

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing.

Wash contaminated clothing before reuse.

Inhalation: Move to fresh air.

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IPL BIOLOGICALS

MILDOWN Revision Date: 01-06-2020

Eve contact: Flush eye(s) with plenty of water. Remove contact lenses, if present

and easy to do rinsing. Get medical aid immediately

Ingestion: If swallowed, rinse mouth with water. Move to fresh air. Keep at rest

position comfortable for breathing. Do not induce vomiting unless directed to do so by a physician. Get medical advice immediately if

any symptom occurs.

5. FIRE-FIGHTING MEASURES

Flammable Limits: Non-combustible and non-flammable

Extinguishing media: Not Applicable **Special Protective Equipment:** Not required

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment for safety (See section 8)

Wear gloves and face mask otherwise

Environmental Precautions: Prevent further leakage or spoilage. Clean up spills immediately with

disinfectants.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: The whole content of the pack should be used in one time.

Wash thoroughly after handling. Remove contaminated clothing and wash before re use. Avoid contact with eyes, skin & clothing. Avoid

ingestion.

Discard used container and bury them away from habitation where

there is no underground water sources.

Storage: Protect from direct sunlight. Protect from physical damage. Keep

containers tightly closed in a cool, dry and well ventilated place. The product should be stored below 40°C. Store separately from chemical

pesticides.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure guidelines: This product, as supplied, does not contain any hazardous materials

with occupational exposure limits.

Appropriate Control: Ensure adequate ventilation and water supply for cleaning purpose.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses/goggles.

Skin and body protection: Wear normal work clothing. Use hand gloves.

Respiratory protection: Ensure adequate ventilation.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety

practice. When using do not eat or drink. Keep away from food, drink and animal feeding stuffs. Avoid contact with eyes, skin, and clothing. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated

clothing and wash it before reuse.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution

Color Off white
Odour Bacterial odour

Property
pHValues
7.5 to 8.5Melting point/freezing point< -3 °C / 27 °FBoiling point/boiling range>= 100 °C / 212 °F

Flash Point Non-combustible and non-flammable

Flammable Limits Non flammable **Evaporation rate** No Data available Vapor pressure No Data available Vapor density No Data available **Specific Gravity** No Data available Water solubility Soluble in water Soluble in other solvents No Data available Partition coefficient No Data available

Auto ignition temperature Non-combustible and non-flammable

Decomposition temperatureNo Data availableKinematic viscosityNo Data availableDynamic viscosityNo Data availableExplosive propertiesNon-explosiveOxidizing propertiesNo Data available

Other informations

Softening pointNo Data availableMolecular weightNo Data availableVOC Content (%)No Data availableDensityNo Data availableBulk DensityNot Applicable

Technical characteristics of the product

Wettability No Data available Formation of persistent foam No Data available

Suspension behavior, spontaneity

and stability of the dispersion No Data available

Degree of dissolution and

stability of dilutionNo Data availableParticle size distributionNo Data available

Emulsification faculty and

emulsion stabilityNo Data available

Drainage, discharge and dust

Processing No Data available

Physical and chemical compatibility

with other productsNo Data availableAdhesion and distribution on seedsNo Data availableCorrosive powerNon corrosive

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10. STABILITY AND REACTIVITY

Stability and Reactivity Stable under normal temperature and pressure

Conditions to Avoid Keep away from direct sunlight

Hazardous reactions None **Hazardous Decomposition Products** None

11. TOXICOLOGICAL INFORMATION

Product information Non-toxic and non-virulent

Acute Oral Toxicity

(Animal: Mice & Rat) Non-toxic and non-virulent @ >5 x 10⁸ and 1 x 10⁹ CFU/ml

Acute Pulmonary Toxicity

(Rats) Non-toxic and non-virulent @ >5 x 10⁸ CFU/ml Non-toxic and non-virulent @ >2 x 10¹⁰ CFU/ml

Eyes Irritation (Rabbit)

Skin Irritation (Rabbit)

Inhalation toxicity

Carcinogenicity

Skin sensitization

Exposure data

Non-irritant

Non Irritant

No data available

No data available

No data available

12. ECOLOGICAL INFORMATION

Eco-toxicity Product being a microbial-based product, isolated from soil micro

flora is bio decomposable and non-toxic to aquatic and other

beneficial micro flora.

Persistence and degradability Non-persistent and biodegradable

Bioaccumulation N

Mobility Soluble in water

13. DISPOSAL CONSIDERATION

Waste treatment methods

Disposal of wasteDispose of in accordance with federal, state and local regulation.

Contaminated packing
Do not reuse container. Dispose of in accordance with federal, state

and local regulation.

14. TRANSPORT INFORMATION

Transportation Not classified as Dangerous for transport. Transport product in

compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 -

ICAO/IATA 2011).

Marine Pollutant Not classified as Marine pollutant

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Organic Materials Review Institute (OMRI) Listed

This product is OMRI listed. It may be used in certified organic production or food processing and handling according to the USDA National Organic Programme Rule.

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MILDOWN Revision Date: 01-06-2020 INDOCERT

This product has been certified under National Standards for Organic Production for use in Organic Agriculture.

IMO, India

This product has been certified to be used in organic crop production in accordance to the requirement of the National Programme for Organic Production (India).

Chemical safety assessment

Not Classified as Dangerous for Supply / use. Not Classified as Dangerous for the Environment.

16. OTHER INFORMATION

The informations provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. These informations are intended to describe the product from the point of view of the safety requirements. No warranty is implied with respect to the quality or the specification of the product. This relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared by IPL Biologicals Limited

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