

PhosBac 45

Last review 17/01/2023

| Section 1 | Identification of the mixture and | of the Company | |
|-----------|--|--|--|
| 1.1 | · · · · · · · · · · · · · · · · · · · | | |
| | Product Name | PhosBac 45 | |
| | Synonyms | N/A | |
| 1.2 | Relevant identified uses of the m | ixture and uses advised against | |
| | Use of the product | Plant Growth Stimulant | |
| | Uses advised against | N/A | |
| 1.3 | 1.3 Details of the supplier of the Safety Data Sheet | | |
| | Supplier | Andermatt Canada Inc. | |
| | Address | 1350 Regent Street | |
| | | Fredericton, New Brunswick Canada E3C 2G6 | |
| | Phone | +1 (506) 444-5690 | |
| | E-mail | info@andermattcanada.ca | |
| 1.4 | Emergency Telephone Number | | |
| | Phone (medical) | 1-888-226-8832 | |
| Section 2 | Hazards Identification | | |
| 2.1 | Classification of the mixture | | |
| | | Not Classified; No hazardous components | |
| 2.2 | Label elements | | |
| | | IN THE CASE OF EYE CONTACT: Rinse cautiously with water for | |
| | | several minutes. Removing existing contact lenses if possible. | |
| | | Continue rinsing. | |
| | | Keep out of the reach of children. | |
| | | Store locked up. | |
| | | To avoid risks to human health and the environment, comply with the | |
| | | instructions for use. | |
| | | Contains Bacillus velezensis | |
| | | Potential Sensitizer | |
| 2.2 | Other hazards | Potential Eye irritant | |
| 2.3 | Other hazards | This mixture does not contain any substances, which are persistant | |
| | | This mixture does not contain any substances, which are persistent, bioaccumulative and toxic (PBT). | |
| | | This mixture does not contain any substance which are very persistent, | |
| | | and bioaccumulative (vPvB). | |
| | | and bloacediffulative (vi vb). | |
| Section 3 | Composition/Information on Ingredients | | |
| 3.1 | Substances | | |
| | | This product is a mixture | |
| 3.2 | Mixtures | | |
| | | Bacillus velezensis strain FZB45 | |
| | | No hazardous component. | |
| Section 4 | First Aid Measures | | |
| 4.1 | Description of first aid measures | | |
| | | | |



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General Notes Change any contaminated or wetted clothing at once. If poisoning occurs contact a doctor. Following Inhalation Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice after significant exposure. Treat symptomatically is advised. Following skin contact Remove contaminated clothing. Seek medical advice if irritation develops. Wash clothes before reuse. After contact with skin, wash immediately with plenty of water. Rinse thoroughly with plenty of water for several minutes. Eyelids Following eye contact should be held away from the eyeball to ensure thorough rinsing. Following ingestion No typical symptoms and affects known Advice to physician Treat symptomatically 4.2 Most important symptoms and effect, both acute and delayed No typical symptoms and effects known. 4.3 Indication of any immediate medical attention and special treatment needed.

Section 5 Firefighting measures 5.1 Extinguishing media Suitable extinguishing media Water, Water spray, foam, carbon dioxide, Multi-purpose powder Unsuitable extinguishing media None known 5.2 Special hazards arising from the mixture None 5.3 Advice for firefighters None Section 6 **Accidental release measures** 6.1 Personal precautions, protective equipment and emergency procedures Use protective clothing. Do not inhale. 6.2 **Environmental precautions** Prevent entry into drains, waters, sewages, etc. of the product; contact immediately the municipal technical management if the product enters such bodies. Methods and material for containment and cleaning up Use absorbent material to collect spillage (eg. Sawdust, peat, chemical Binder). Place contaminated absorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of

None.

6.4 Reference to other sections

See personal protective equipment under Section 8 of SDS.

closable receptacles.

Section 7 Handling and Storage

7.1 Precautions for safe handling

Comply with instructions for use. Work only in well ventilated areas, avoid contact with eyes and skin. Wear appropriate protective equipment. Wash thoroughly with soap and water after handling. If

contaminated absorbent. Also place used cleaning materials into



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clothing becomes contaminated, wash thoroughly before re-use. Avoid contaminations of the surrounding areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in original package only. Keep container tightly closed when not in use. Protect from sunlight. When sealed, product is stable for at least 2 years at room temperature. Bioactivity may be impaired by storage

above 30°C.

7.3 Specific end use(s)

Plant Growth Stimulant

Section 8 Exposure controls/personal protection

8.1 Control parameter

The usual precautionary measures for handling chemicals should be

observed.

8.2 Exposure controls

Eye/Face Protection Use safety glasses
Skin Protection Use Protective Clothing

Respirator Protection A NIOSH approved mist filtering mask or respirator with any N-95, P-95

or R-95 filter.

Thermal Hazards No specific recommendations

Other information None

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State Slight pasty liquid Color brown-yellowish

Odor Earthy

Odor Threshold Not determined

pH 6.5-7

Melting point/freezing point Not determined Initial boiling point and boiling Not determined

range

Flash Point Not determined
Evaporation Rate Not determined
Flammability Not flammable
Upper/Lower flammability Not flammable

or explosive limits

Vapor Pressure
Vapor Density
Relative Density
Solubility(ies)
Not determined
Not relevant
1.0 kg/dm³
Soluble

Partition coefficient: n- Not determined

cotanol/water

Auto-ignition temperature Not determined
Decomposition temperature Not determined
Viscosity Not determined



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Explosive Properties Non explosive Oxidising properties Not determined

9.2 Other Information

None

| Section 10 | Stability and Reactivity | |
|------------|------------------------------------|--|
| 10.1 | Reactivity | |
| | | Not reactive |
| 10.2 | Chemical stability | |
| | | Stable under normal conditions of use. |
| 10.3 | Possibility of hazardous reactions | |
| | | None relevant |
| 10.4 | Conditions to avoid | |
| | | None Known |
| 10.5 | Incompatible materials | |
| | | None Known |
| 10.6 | Hazardous decomposition produc | ts |
| | | None known |

Section 11 Toxicological Information

11.1 Information of toxicological effects

Acute toxicity Rat, oral, $LD_{50} > 25ml$ (of 15% suspension/kg) no adverse effects

Skin corrosion/irritation Rat, dermal LD₅₀ 5000mg/kg b.w., no adverse effect

Serious eye damage/irritation May cause slight temporary irritation to ocular mucous membranes.

Respiratory or skin sensitization Rat, inhalation, LD₅₀ 1.1x10⁹ CFU/animal, no adverse effects

Germ cell mutagenicity Not determined Carcinogenicity Not classified Not classified Reproductive toxicity STOT-single exposure Not existing STOT-repeated exposure Not existing Aspiration hazard Not relevant

Section 12 Ecological Information

12.1 Toxicity

Acute (short-term) toxicity

Oncorhynchus mykiss $LD_{50} > 100 \text{ mg/L} (4.1 \times 10^{10} \text{ cfu/g}) (96\text{h})$, no signs of Fish

toxicity

Daphnia magna $EC_{50} > 100 \text{mg/L} (4.31 \times 10^{10} \text{ cfu/g}) (48 \text{h})$, no signs of Crustacea

Algae/aquatic plants Lemma gibbe, $EC_{50} > 100 \text{ mg/L} (4.31 \times 10^{10} \text{ cfu/g})$, no signs of toxicity Apis mellifera L. contact, $LD_{50} > 540 \mu g$ product/bee, $(4.1 \times 10^{10} \text{ cfu/g})$, no Other organisms

signs of toxicity

Chronic (long-term) toxicity

Fish No data available Crustacea No data available Algae/aquatic plants No data available



Section 14

Transport Information

SAFETY DATA SHEET

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| | Other organisms | No data available |
|------------|--|--|
| 12.2 | Persistence and degradability | |
| | Abiotic Degradation | Not determined |
| | Physical and photo-chemical | Not determined |
| | elimination | |
| 42.2 | Biodegradation | Biodegrades |
| 12.3 | Bioaccumulative potential | Not delicated |
| | Octanol/water partition | Not determined |
| | coefficient (Kow) | Not determed and |
| 12.4 | Bioconcentration factor (BCF) | Not determined |
| 12.4 | Mobility in Soil | Not determined |
| | Known or predicted distribution to | Not determined |
| | environmental compartments | |
| | Surface tension | Not determined |
| | Absorption/desorption | Not determined |
| 12 5 | Results of PBT and vPvB assessm | |
| 12.5 | Results of FBT and VI VB assessin | This mixture does not contain any substances that are assessed to be a |
| | | PBT or a vPvB. |
| 12.6 | Other adverse effects | |
| | | None |
| 12.7 | Additional information | |
| 14.7 | / laditional information | |
| 12.7 | Additional information | None |
| 12.7 | , additional information | None |
| Section 13 | Disposal considerations | None |
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| Inland Transportation | Not restricted |
|-----------------------|----------------|
| Sea Transportation | Not restricted |
| Air Transportation | Not restricted |
| | |

| | Air Transportation | Not restricted |
|------------|---|--|
| | | |
| Section 15 | Regulatory Information | |
| 15.1 | Safety, health and environmental regulations/legislation specific for the mixture | |
| | Authorizations | Not relevant |
| | Restrictions on use | Not relevant |
| 15.2 | Chemical Safety Assessment | |
| | | No Chemical Safety Assessment has been carried out for this mixture by the supplier. |
| Section 16 | Other Information | |
| | | This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and |
| | | complete for their special use of this product. |

Date of Review January 17, 2023

Composed by Laura Forbes, International Business & Regulatory Affairs Manager

Andermatt Canada Inc.