



# SAFETY DATA SHEET

Revision date: 09/10/2013

Revision number: 0

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

### Product identifier

Product Name	BioRemove 4100
Product Code	7039917

### Recommended use of the chemical and restrictions on use

Recommended Use	Wastewater Treatment.
Uses advised against	Please refer to Product Data Sheet

### Details of the supplier of the Safety Data Sheet

Contact Manufacturer	Novozymes Biologicals Inc. 5400 Corporate Circle Salem, VA, USA 24153
Information Telephone Number	1-540-389-9361, 8am - 4:30pm EST M-F
Emergency Telephone Number	1-800-424-9300 (Chemtrec) 24 hours every day

## 2. HAZARDS IDENTIFICATION

### Classification

Classification of the product is in accordance with 29CFR 1910.1200

### Label elements

#### **Emergency Overview**

**Not classified**

May form combustible dust concentrations in air

**Appearance** No information available

**Physical State** No information available

**Odor** No information available

**Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**Skin** IF ON SKIN: Gently wash with plenty of soap and water

**Inhalation** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Ingestion** IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **Precautionary Statements - Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F  
Keep away from sources of ignition

#### **Precautionary Statements - Disposal**

Dispose of unused product and container in accordance with all applicable local and regional requirements

#### **Hazards not otherwise classified (HNOC)**

Not Applicable

### Other Information

Health Hazard	1
Fire Hazard	1
Reactivity	0

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

\* The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST AID MEASURES

##### First aid measures

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water
<b>Inhalation</b>	Move to fresh air
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water

##### Most important symptoms and effects, both acute and delayed

**Main Symptoms** No information available

##### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically

#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

##### Specific Hazards Arising from the Chemical

No information available

##### Protective Equipment and Precautions for Firefighters

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** Ensure adequate ventilation

##### Environmental precautions

**Environmental Precautions** It is not anticipated to be hazardous for the environment

##### Methods and material for containment and cleaning up

**Methods for Clean-up** Pick up and transfer to properly labelled containers

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice

##### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place

**Packaging Material** There could be many packaging types for the product. The details are given in other Novozymes documents

**Incompatible Materials** Strong acids or alkali compounds and strong oxidizing agents may inactivate biological cultures

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Appropriate engineering controls

#### Individual protection measures, such as personal protective equipment

<b>Eye Protection</b>	Avoid contact with eyes
<b>Skin and body protection</b>	No special technical protective measures are necessary
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practices

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	No information available
<b>Appearance</b>	No information available
<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available

#### Property

<b>Melting/freezing point</b>	<b>Values</b> No information available
<b>Evaporation rate VALUE</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Burning rate 100mm VALUE</b>	No information available
<b>Vapor Pressure</b>	No information available
<b>Vapor Density</b>	No information available
<b>Specific Gravity</b>	No information available
<b>Water Solubility</b>	No information available
<b>Solubility in other solvents</b>	No information available
<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity of Product</b>	No information available
<b>Viscosity</b>	No information available
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

#### Other Information

<b>Softening Point</b>	No information available
<b>VOC Content</b>	No information available
<b>Density</b>	No information available

## 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**

Extremes of temperature and direct sunlight

**Incompatible materials**

Strong acids or alkali compounds and strong oxidizing agents may inactivate biological cultures

**Hazardous Decomposition Products****11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Inhalation</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Eye contact</b>	Contact with eyes may cause irritation.
<b>Skin contact</b>	Prolonged or repeated contact may dry skin and cause irritation
<b>Ingestion</b>	Ingestion may cause stomach discomfort

**Information on toxicological effects**

**Symptoms** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	No information available
<b>Mutagenic Effects</b>	No information available
<b>Reproductive Effects</b>	No information available
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available
<b>Aspiration hazard</b>	No information available

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

None known

**Persistence/Degradability**

No information available

**Bioaccumulation/ Accumulation**

No information available

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Waste Disposal Method**

Dispose of contents/container in accordance with local regulation

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal

## 14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

#### Legend:

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

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

### 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 40 CFR Part 372.

#### SARA 311/312 Hazardous

##### Categorization

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### State Regulations

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**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**State Right-to-Know****U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

<b>16. OTHER INFORMATION</b>
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**Revision date:**

09/10/2013

**Revision Summary**

No information available

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Furthermore, as the conditions of use are beyond the control of Novozymes, it is the responsibility of the customer to determine the conditions of safe use of this preparation.

**End of SDS**