



# SAFETY DATA SHEET

Revision date: 11/21/2014

Revision number: 1

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

### Product identifier

Product Name	Toler X 4100
Product Code	7039521

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

Recommended Use	No information available
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

This mixture is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

#### Emergency Overview

Not classified

May form combustible dust concentrations in air

**Appearance** Tan; free-flowing

**Physical State** Powder

**Odor** Slight fermentation odor

<b>Eyes</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
<b>Skin</b>	IF ON SKIN: Gently wash with plenty of soap and water
<b>Inhalation</b>	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.
<b>Ingestion</b>	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

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

**Skin Contact** Wash off with warm water and soap.

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing..

**Ingestion** 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** Contains Viable Bacterial Cultures classified as Risk Group 1.

#### 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** After cleaning, flush away traces with water. Avoid dust formation.

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

**Handling** Wear personal protective equipment. Wash hands and face thoroughly after handling. Avoid formation of aerosols and dust from drying out of spilled preparation. Avoid splashing and high pressure washing. Ensure good ventilation of the room, when handling this preparation. Store container in a cool place. .

##### 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

**General Hygiene Considerations** 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>	Powder
<b>Appearance</b>	Tan; free-flowing
<b>Odor</b>	Slight fermentation odor
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>
<b>Melting/freezing point</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

**10. STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions

**Possibility of Hazardous Reactions**

None under normal processing

**Conditions to avoid**

Extremes of temperature and direct sunlight. Excessive temperature variations below 32F or above 155F.

**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>	May cause temporary eye irritation. 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>Chronic Toxicity</b>	No information available.
<b>Aspiration hazard</b>	No information available

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

None known

**Persistence/Degradability**

The organic components of the product are biodegradable.

**Bioaccumulation/ Accumulation**

Does not bioaccumulate.

**Other adverse effects**

No known effect

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Waste Disposal Method</b>	Dispose of contents/container in accordance with local regulation.
<b>Contaminated Packaging</b>	Dispose of wastes in an approved waste disposal facility.

### 14. TRANSPORT INFORMATION

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

**16. OTHER INFORMATION**

**Revision date:**

11/21/2014

**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**