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## MATERIAL SAFETY DATA SHEET

### NSS Resin

Issue date: 11/06/2019

#### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

- **PRODUCT NAME:**  
NSS Resin
- **SYNONYMS:**  
Starch Resin for Degradable Loosefill Packaging
- **PRODUCT CODES:**  
100
- **MANUFACTURER:**  
NewStarch Solutions
- **DIVISION:**
- **ADDRESS:**  
13125 Industrial Park Blvd. Plymouth, MN55441
- **EMERGENCY PHONE:**  
763-229-8492
- **CHEMTREC PHONE:**
- **OTHER CALLS:**  
651-295-7316
- **FAX PHONE:**
- **CHEMICAL NAME:**  
Carbohydrate and Polymers  
Starch from Corn or Potato  
Non-Hazardous
- **CHEMICAL FAMILY:**  
Carbohydrate
- **CHEMICAL FORMULA:**  
Polymer Mixture
- **PRODUCT USE:**  
Make Degradable Loosefill
- **PREPARED BY:**  
NewStarch Solutions

#### **SECTION 1 NOTES: Non-Hazardous**

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## **SECTION 2 –COMPOSITION / INFORMATION ON INGREDIENTS**

- **INGREDIENT:**

>85% Corn and Potato Starch

<10% Polyvinyl Alcohol

<5% Additives

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	

OSHA PEL-TWA:

OSHA PEL STEL:

OSHA PEL CEILING:

ACGIH TLV-TWA:

ACGIH TLV STEL:

ACGIH TLV CEILING:

## **SECTION 2 NOTES:**



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## **SECTION 5 – FIRE-FIGHTING MEASURES**

- **FLAMMABLE LIMITS IN AIR, UPPER:**  
(% BY VOLUME                      LOWER:
- **FLASH POINT:**  
F: N/A  
C:
- **METHOD USED:**
- **AUTOIGNITION TEMPERATURE:**  
F: N/A  
C:
- **NFPA HAZARD CLASSIFICATION:**  
HEALTH: 0                      FLAMMABILITY: 0                      REACTIVITY: 0  
OTHER:
- **HMIS HAZARD CLASSIFICATION:**  
HEALTH:                      FLAMMABILITY:                      REACTIVITY:  
OTHER:
- **EXTINGUISHING MEDIA:**  
Water Spray, Dry chemical, CO<sub>2</sub>, Foam
- **SPECIAL FIRE FIGHTING PROCEDURES:**  
None Required
- **UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
N/A
- **HAZARDOUS DECOMPOSITION PRODUCTS:**

## **SECTION 5 NOTES:**

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

ACCIDENTAL RELEASE MEASURES: Sweep or Scoop Up and Remove

## **SECTION 6 NOTES:**

## **SECTION 7 – HANDLING AND STORAGE**

- **HANDLING AND STORAGE:**  
Store in Container Bag, Keep at Room Temperature
- **OTHER PRECAUTIONS:**  
Keep Dry
- **INGESTION:**  
N/A

## **SECTION 7 NOTES:**

## **SECTION 8 – EXPOSURE CONTROL S / PERSONAL PROTECTION**

- **ENGINEERING CONTROLS:**  
None Required
- **VENTILATION:**  
General
- **RESPIRATORY PROTECTION:**  
None Required
- **EYE PROTECTION:**  
None Required
- **SKIN PROTECTION:**  
None Required for Normal Use
- **OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**  
None Required
- **WORK HYGIENIC PRACTICES:**  
None Required
- **EXPOSURE GUIDELINES:**  
No limits Established

## **SECTION 8 NOTES:**

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- **APPEARANCE:**  
Resin Pellet
- **ODOR:**  
Grainy
- **PHYSICAL STATE:**  
Solid
- **pH AS SUPPLIED:**  
6.0
- **pH (Other):**
- **BOILING POINT: N/A**  
F:  
C:
- **MELTING POINT: N/A**  
F:  
C:
- **FREEZING POINT: N/A**  
F:  
C:
- **VAPOR PRESSURE (mmHg): N/A**  
@ F:  
C:
- **VAPOR DENSITY (AIR = 1): N/A**  
@ F:  
C:
- **SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.18 ± 0.03**  
@ F: 72  
C:
- **EVAPORATION RATE: N/A**
- **BASIS (=1):**
- **SOLUBILITY IN WATER: Low**
- **PERCENT SOLIDS BY WEIGHT: 84%**
- **PERCENT VOLATILE: N/A**  
**BY WT/ BYVOL @**  
F:  
C:

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- **VOLATILE ORGANIC COMPOUNDS (VOC): None**
  - With water: LBS/GAL
  - Without water: LBS/GAL
- **MOLECULAR WEIGHT: >10000**
- **VISCOSITY: N/A**
  - @ F:
  - C:

## SECTION 9 NOTES:

## SECTION 10 – STABILITY AND REACTIVITY

- **STABILITY: Very Stable**
- **CONDITIONS TO AVOID (STABILITY): None Known**
- **INCOMPATIBILITY (MATERIAL TO AVOID): None Know**
- **HAZARDOOUS POLYMERIZATION OR BY-PRODUCTS:**
  - Product does not undergo spontaneous decomposition.
  - Combustion by -Products include CO, CO<sub>2</sub>, H<sub>2</sub>O
- **HAZARDOUS POLYMERIZATION: N/A**
- **CONDITIONS TO AVOID (POLYMERIZATION): N/A**

## SECTION 10 NOTES:

## SECTION 11 – TOXICOLOGICAL INFORMATION

- **TOXICOLOGICAL INFORMATION:**
- **ORAL TOXICITY:**
  - Low order of Toxicity

## SECTION 11 NOTES:

## **SECTION 12 – ECOLOGICAL INFORMATION**

- **ECOLOGICAL INFORMATION:**
- **DEGRADABILITY:**  
Degradable in compost or extend exposure to water
- **INCINERABILITY:**  
Incineratable
- **TOXIC VOLATILES:**  
None present with complete combustion

## **SECTION 12 NOTES:**

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

- **WASTE DISPOSAL METHOD:**  
In accordance using local regulations
- **RCRA HAZARD CLASS: N/A**

## **SECTION 13 NOTES:**

## **SECTION 14 – TRANSPORT INFORMATION**

- **DEPARTMENT OF TRANSPORTATION**  
PROPER SHIPPING NAME: N/A  
HAZARD CLASS: N/A  
ID NUMBER: N/A  
PACKING GROUP: N/A  
LABEL STATEMENT: N/A
- **WATER TRANSPORTATION**  
PROPER SHIPPING NAME: N/A  
HAZARD CLASS: N/A  
ID NUMBER: N/A  
PACKING GROUP: N/A  
LABEL STATEMENT: N/A

# MATERIAL SAFETY DATA SHEET

- **AIR TRANSPORTATION**

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT: N/A

- **OTHER AGENCIES:**

## **SECTION 14 NOTES:**

## **SECTION 15 – REGULATORY INFORMATION**

- **U.S. FEDERAL REGULATIONS**

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION,  
AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND  
REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: N/A

- **STATE REGULATIONS: N/A**

- **INTERNATIONAL REGULATIONS: N/A**

## **SECTION 15 NOTES:**

## **SECTION 16 – OTHER INFORMATION**

- **OTHER INFORMATION:**

- **PREPARATION INFORMATION:**

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