Naturalock™ Biobased Urethane Foam Adhesive
Material Safety Data

Section 1 Product and Company Identification

Product Name: **Naturalock™ Biobased Urethane Foam Adhesive - Part B**
Description: **Biobased Seed Oil Polyol**
Company: **Green Products LLC**
221 E. Rocbaar Drive
Romeoville, IL 60446
Phone 815-407-0900

This Material Safety Data Sheet conforms to the requirements of US OSHA 29CFR1910.1200, 91/155/EEC and the Canadian Hazardous Products Act.

Section 2 Composition and Hazardous Ingredients

Alkyd resin: **Non Hazardous** **CAS #** **68309-49-9** **100% by weight**

Materials noted by (*) are Sara Title III reportable under Section 313

Section 3 Hazards Identification and Physical Data

Potential Health Effects:

Eyes: May cause mild eye irritation
Skin: May cause redness or dermatitis on hypersensitive individuals after prolonged contact.
Ingestion: May cause abdominal discomfort if swallowed.
Inhalation: Harmful if inhaled. Overexposure may cause dizziness, headache, nausea or respiratory irritation. Severe overexposure can cause damage to the nose, throat, eye, kidney and liver.
Chronic: Chronic effects have been reported in association with repeated prolonged occupational overexposure to solvents that have resulted in permanent brain and CNS damage. Medical conditions are generally aggravated by exposure to solvent vapors.
Carcinogenicity: No effects known.

Section 4 First Aid

Eyes: Immediately flush with water for 2 to 3 minutes, remove contact lenses and repeat flushing for 15 minutes. Seek medical attention if symptoms persist.
Skin: Wash thoroughly with soap and water. Seek medical attention if irritation develops. .
Ingestion: Give water to conscious victims only. Do not induce vomiting if swallowed. If vomiting occurs, lean victim forward to prevent aspiration of liquids into the lungs. Seek medical attention if adverse symptoms develop.
Inhalation: Remove to fresh air and supply oxygen if breathing is difficult, Seek medical attention.

Section 5 Fire Fighting Measures

Flash Point: 250 + F
Flammable Limits: DNA
Extinguishing Media: Carbon dioxide, Dry Chemical, Foam and Water Spray

Explosion Hazards: As with most organic materials, an explosion risk exists if there is an aerosol formed.
Hazardous Combustion of Products: Oxides of carbon and noxious fumes.
Fire Fighting Equipment: Wear full protective equipment and a NIOSH-approved self-contained breathing apparatus. Small fires may require only an extinguisher without the SCBA.
Hazardous Decomposition Products: Hazardous polymerization will not occur, however this material does contain oxidizable groups that can be catalyzed to react.

Section 6 Accidental Release Measures

General Comments: Collect large spills with a shovel, vacuum or broom and salvage if possible. Material should not be allowed to enter the public drains or waterways. Do not flush down sanitary sewers. Clean the area with a suitable detergent solution.

Section 7 Handling and Storage

Handling: Use appropriate personal protective equipment. While the material is not particularly damaging, it is always a good practice to limit contact of any material to a practical minimum.

Storage: Store material in unopened containers under cool, dry conditions. Keep away from heat, sparks, static sources and open flames. Avoid contact with strong oxidizers.

Section 8 Exposure Control / Personal Protection

Exposure Guidelines: **OSHA Hazard Components 29CFR1910.1200**

Exposure Limits:	**OSHA PEL**		**ACGIH TLV**	
	ppm	**g/m^3**	**ppm**	**g/m^3**
	Not Established		**Not Established**	

Engineering Controls: Use in areas with adequate general ventilation

Personal Protective Equipment:

Eyes & Face: Safety glasses or goggles are recommended. Use full-face shield when charging to liquids to prevent splash back into face areas.
Skin: Wear gloves and appropriate protective clothing to prevent chronic contact.
Respiratory: Respiratory protection is not required under normal use. However aerosol or vapor-mist require use (above the PEL), use a properly 'fitted' respirator conforming to NIOSH / MSHA).

Work Hygiene: Maintain good personal hygiene always and keep work areas clean.

Section 9 Physical and Chemical Properties

Appearance: viscous yellow liquid **Odor**: Mild Oleo resinous

Vapor Pressure: nil @ 20 C **Water Solubility:** Insoluble - VSS

Evaporation Rate: <.01 (butyl acetate = 1) **Specific Gravity:** 0.96

VOC: 0% by weight **% Nonvolatile:** 100% by weight

Vapor Density (air = 1) DNA **Initial Boiling Point** = DNA

Section 10 Stability / Reactivity

Stable: Yes **Hazardous Polymerization:** No

Conditions to Avoid: Sparks, static, open flames, excessive heat or other source of ignition

Storage Stability: Material is stable but will react with strong oxidizing agents. Store at temperatures below 120 F and in accordance with OSHA regulation 1910.106 / Ontario OH&S Regulation 851 Section 22.

Section 11 Toxicological Information

When used as intended by the manufacturer and specifications, this product will not cause any adverse toxicological effects.

Not listed in: IARC, NTP or OSHA

Section 12 Ecological Information

The environmental data suggests that the material may cause adverse environmental impact if left in contact with ground water for extended periods of time. Keep the material clear of underground or surface waterways and public sewage systems.

Section 13 Disposal Information

Dispose of waste preferably by recycling. If discarding, dispose of waste at an appropriate waste disposal facility according to applicable laws and regulations. In most municipalities, this product may be land filled depending on product characteristics at the time of disposal. Check with solid waste disposal authorities for further information and instruction.

Section 14 Transportation Information

DOT Primary Hazard Class / Division: Not Regulated

Section 15 Regulatory Information

SARA Title III (Superfund amendments and Reauthorization Act)

311 / 312 Hazard Categories: This product is not considered to be a hazardous substance under the OSHA hazard Communication Standard, 29 CFR 1910.1200

313 Reportable Ingredients None

302 EHS / 304 Emergency Planning: Not Listed

CERCLA (Comprehensive Response, Compensation and Liability Act)
CERCLA Regulatory: Not Listed

TSCA (Toxic Substance Control Act)
TSCA Regulatory: This substance is listed on the TSCA Chemical Substance Inventory
RCRA Status: Not Regulated
Clean Air Act: ***40 CFR part 61*** CAA Hazardous Air Pollutants: (see section 2)
40 CFR part 68 RMP for Chemical Accident Release Prevention: Not Listed
40 CFR part 82 Protection of Stratospheric Ozone This material is neither manufactured using nor contains any ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendment.

OSHA (Occupational Safety and Health Administration)
29 CFR 1910.119 Process Safety Management of Highly Hazardous Chemicals: Not Regulated

Proposition 65 Statement: Not Listed

Canada **WHMIS** (Worker Hazardous Materials Information System)
This material has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and it is believed the MSDS contains all the information required by the CPR.

DSL (Domestic Substance List) This product is listed on the DSL.

Section 16 Other Information

NFPA Codes: Health 1 Fire 1 Reactivity 0
HMIS Codes: Health 1 Fire 1 Reactivity 0 Protection X

Additional MSD information: The OSHA Hazard Communication Standard, 29 CFR 1910.1200, paragraph (g)(4) specifically permits chemical manufacturers to produce a single MSD for a category of complex mixtures where those mixtures “have similar hazards and contents”. Therefore, this MSD applies to the range of products described in Section 1, or all of the products with the same product name listed in Section 1. Where specific data is required for the purposes of regulatory reporting a Technical Data Sheet will be provided for the specific product upon request to our technical department.